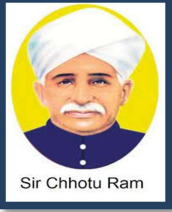




Established in 1951

# CHHOTU RAM ARYA COLLEGE SONIPAT



Sir Chhotu Ram

## SELF-STUDY REPORT



2022-2023

CRITERIA - VII

## **7.1: Institutional Values and Social Responsibilities**

**7.1.2: The Institution has facilities and initiatives for Alternate sources of energy and energy conservation measures, Management of the various types of degradable and non-degradable waste, Water Conservation etc.**

**Circulars and report of activities for the implementation of the initiatives document**



## INDEX

| <b>S.No.</b> | <b>Particulars</b>  |
|--------------|---|
| <b>1</b>     | <b>Circulars related to Tree-plantation</b>                             |
| <b>2</b>     | <b>Circulars related to Cleanliness</b>                                 |
| <b>3</b>     | <b>Notice and display related to Water and Electricity Conservation</b> |
| <b>4</b>     | <b>Green Audit</b>  |
| <b>5.</b>    | <b>Energy Audit</b>   |
| <b>6.</b>    | <b>Environment Audit</b>  |



**1. Activities related to  
Cleanliness**

**2018-19**



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**Sonipat-131001**

**NATIONAL SERVICE SCHEME (NSS)**

**UNIT-I & II**



Website: [www.cracollegesonepat.org](http://www.cracollegesonepat.org)

Email: [crasonepat@gmail.com](mailto:crasonepat@gmail.com)

Phone: 0130-2242925

Dated: 05/9/2018

## Notice

This is for information to all the concerned that NSS UNIT (I & II) in collaboration with Outreach Programme, Health and Hygiene Club, Sports and Eco Club will organise “**One-Day Cleanliness Campus Drive**” on 09<sup>th</sup> September 2018. Presence is mandatory for all the NSS volunteers in the college at 10:00 am.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**



*D.K.*  
Principal  
C.R.A COLLEGE  
SONEPAT

**Principal**

*Bhikhi*  
*Deen*

*Sonika*  
*Monika*  
*Monika*  
*B*

*CA*  
*Sangita*



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## **Report of Clean Campus Drive held on 9<sup>th</sup> September, 2018**

NSS organised the **Clean Campus Drive** on 9<sup>th</sup> September 2018. The NSS volunteers were actively involved in it. NSS volunteers enthusiastically collected plastic wastes, tea cups, weeds, and dry leaves spread over the surrounding areas. The volunteers gathered all the waste and trash bags to the place where the college arranged for the disposal of collected wastes. To encourage students to keep their surrounding clean and to create an awareness on ecofriendly environment, various programmes were conducted regularly. The whole cleaning drive was quite inspiring and motivating for the NSS team members.

*Bh  
Reent*



*P. K. S.*



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1 *[Signature]*  
2 *[Signature]*



*[Handwritten signature]*





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1 Dudge

2 Qesh



Qesh





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Dated: 21/09/2018

## Notice

This is for information to all the concerned that NSS UNIT (I & II) are going to celebrate NSS Day on 24<sup>th</sup> Sept 2018. Presence is mandatory for all the NSS volunteers in the college campus at 10:00 am.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**

Bani  
Devi  
Arbi  
Monika  
Sushma  
Fibu



Principal  
C.R.A COLLEGE  
SONEPAT  
**Principal**

Sanyata



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## Report on NSS Day

**One Day Camp** was organized on the occasion of NSS Day in college campus. NSS Programme Officer Dr. B.K. Singh and Dr. Nakul Kumar welcomed the principal Dr. Narender Singh. NSS volunteers participated with great zeal and enthusiasm in this programme. The main objective of this celebration is to understand the community in which they work, to understand themselves in relation to their community, to gain skills in mobilising community participation. Clean Campus Drive also performed by volunteers.



1. Bk

Clean Campus Drive by volunteers

2. Reul

*Reul*



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Email: [crasonepat@gmail.com](mailto:crasonepat@gmail.com)

Phone: 0130-2242925

Dated: 29/09/2018

## Notice

All the volunteers are hereby informed that NSS Unit (I and II) is going to organise “**One Day Camp**” on the birth anniversary of Mahatma Gandhi and Lal Bahadur Shastri. Presence is mandatory for all the students in the college at 10:00 am.

Programmer Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**

Principal  
C.R.A COLLEGE  
SONEPAT

**Principal**



Bkhi  
Deul-

SP Howi log

Fiber

Sangruti



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## Report of One Day NSS Camp held on

**2<sup>nd</sup> October, 2018**

**One Day NSS Camp** was organized in our college on the occasion of **Gandhi Jayanti and Lal Bahadur Shastri Jayanti** on October 2<sup>nd</sup>, 2018. The keynote speaker of the program, honorable Principal Dr. Narender Singh guided the volunteers and said that “cleanliness is the best service and religion”. N.S.S. volunteers took the pledge on “**Clean India, Healthy India**”.

N.S.S. Volunteers Kamal, Mayank Rana, Vijay, Ankita and Rupali Sharma actively participate in Student Activities, organized by Maharshi Dayanand University, Rohtak at its campus.

Bhri  
Renu-



D.K.





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Phone: 0130-2242925

Dated: 28/01/2019

## Notice

This is for information to all the concerned that NSS UNIT (I & II) in collaboration with Outreach Programme, Commerce Department, Career Counseling and Eco Club will organise “**One Day Cleanliness Campus Drive**” on 31<sup>st</sup> January 2019. Presence is mandatory for all the NSS volunteers in the college campus at 10:00 am.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**



Principal  
C.R.A COLLEGE  
SONEPAT

**Principal**

Bhu  
Beelu  
Fi by  
Kavita  
S  
D  
Sengupta



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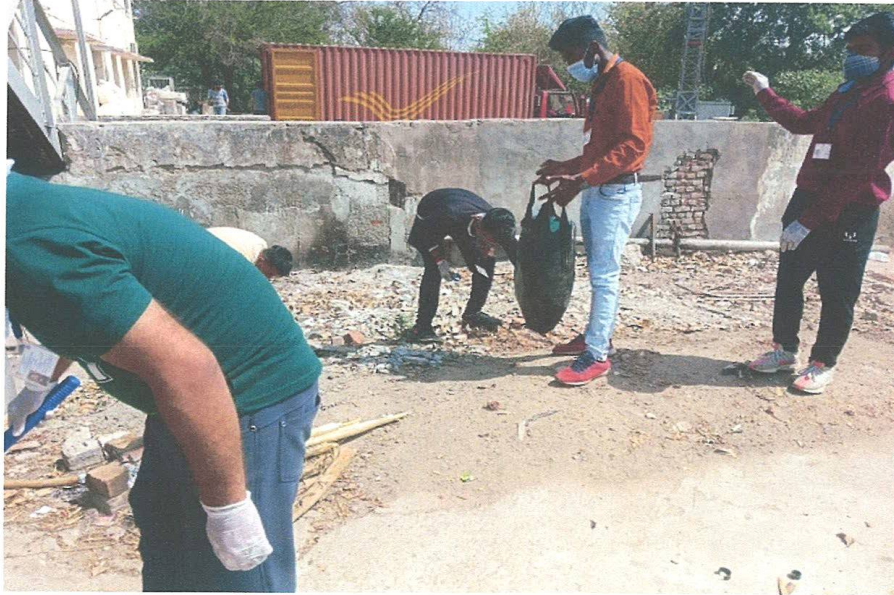
Phone: 0130-2242925

## Report of Campus Cleanliness Drive held on


**31<sup>st</sup> January, 2019**



**Campus Cleanliness Drive** was conducted at our college campus on 31<sup>st</sup> January 2019 at 10:00 a.m. by the NSS volunteers in collaboration with YRC, Health and Hygiene and Eco Club. The program was inaugurated by our honorable Principal Dr. Narender Singh and N.S.S. Programme Officers. 200 NSS volunteers participated and sanitized the whole area of Chhotu Ram Arya School. The volunteers collected all the degradable and non-degradable solid waste. At the end of the program, pledge was taken for protecting our planet and make our mother earth clean and green.



Bki  
Deent

 Students participated in Campus Cleanliness Drive



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Phone: 0130-2242925

Dated: 08/03/2019

## Notice

All the NSS volunteers are hereby informed that “**Seven Days NSS Camp**” will be organised from 13/03/2019 to 19/03/2019 in village: Tihar Bhagroo, Distt. Sonipat. Presence is mandatory for all the NSS volunteers. Volunteers are hereby directed to report in the college campus at 09:00 am. Certificate will be given to the volunteers, who will participate in the camp.

Programmer  
National Service Scheme  
C.R.A. College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**

1. B.K.

2. R.P.



Principal  
C.R.A. COLLEGE  
SONIPAT  
Principal





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# CHHOTU RAM ARYA COLLEGE

## Sonipat-131001

NATIONAL SERVICE SCHEME (NSS)  
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## Report of Seven Day Special Camp



**Seven Day Special Camp** was organised by NSS Unit( I & II) from 13/03/2019 to 19/03/2019 at Govt. Girls Sr. Sec. School, Tihar Bhagroo, Distt. Sonapat. Dr. Narender Singh inaugurated the camp. The Chief Guest on that occasion was Mrs. Krishna Khatri, Head Mistress of the school.

On the **second day**, the cultural event was conducted in the school. The purpose of the program was to encourage the freedom of expression among the villagers. The main theme of the event was traditional art performances. The program was successful in proving the spirit of the people living in the rural areas.

On the **third day**, the camp was initiated with various activities like Essay writing, Cricket and Football Matches. A short speech about the duties of an NSS volunteer and the importance of helping others was given by Programme Officer Dr Rajiv Kumar.

On the **fourth day**, a short speech on the importance of education was given by Programme Officer Dr B.K Singh. Then the volunteers proceeded to clean the surroundings of the School. They were assigned to different areas of the school. The whole day was full of activities. The main objective was to inculcate the spirit of selfless service and voluntary work among the volunteers.

On the **fifth day**, the tree plantation drive was conducted in the school. After that, a soft skill training session and a Personality Development class were conducted. The day ended with the cultural session.

On the **sixth day**, the sports activities were conducted in the school playground like Tug of War, 100 & 200-meter races etc. Our Hon'ble Principal Dr. Narender Singh interacted with volunteers and motivated them to give their best for nation-building.

On the **valedictory day**, Satyabir Singh Malik (RTO) addressed the volunteers. Kamal and Pardeep were declared as the best volunteers



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of their respective units. Mayank was awarded the best speaker of the Camp.



Dr. B.K. Singh Addressed the NSS Volunteers



Dr. Satyabir Singh Malik was felicitated as Guest of Honour

1. Bti  
2. Ref



NKS

**2019-20**



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Phone: 0130-2242925

Dated :- 06/09/2019

## NOTICE

NSS Units (I&II) in association with Health and Hygiene Cell will be organise One Day “**Clean Campus Drive**” on 09/09/2019 under **Swachh Bharat Abhiyan**. It is mandatory for all the volunteers to attend it.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat  
**Programmer Officer**

**N.S.S. Unit I & II**



*D. K. S.*  
Principal  
C.R.A COLLEGE  
SONEPAT

**Principal**

*1. Anil*  
*2. Sat*  
*&*  
*①*  
*Son*  
*Patel*  
*P. K. S.*





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## **REPORT on Cleanliness Campus Drive**

NSS Units I and II organized a One-Day Camp on the "Cleanliness Campus Drive" on September 9, 2019, focusing on the theme "Not me but You". Dr. Usha Dahiya, the program officer, encouraged volunteers to engage in social activities. Two hundred volunteers actively participated in social work, enthusiastically collecting plastic debris, dry leaves, etc., from the surrounding areas. A clean environment contributes to good health.

*Dr. Usha*



1 *Dr. Usha*  
2 *Dr. Usha*



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# CHHOTU RAM ARYA COLLEGE

## Sonipat-131001

### NATIONAL SERVICE SCHEME (NSS)

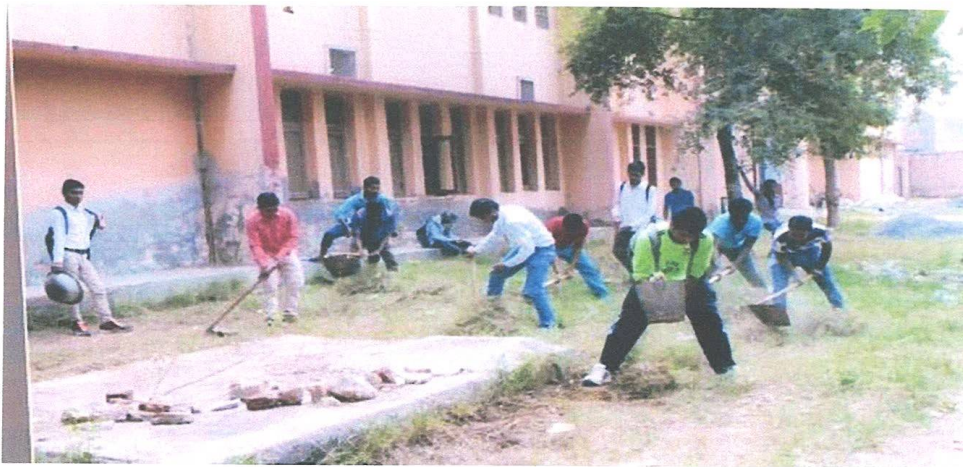
#### UNIT-I & II



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Email: [crasonepat@gmail.com](mailto:crasonepat@gmail.com)

Phone: 0130-2242925



Cleanliness Camp

*Handwritten signature*



1 *Handwritten signature*  
2 *Handwritten signature*



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# CHHOTU RAM ARYA COLLEGE

## Sonipat-131001

### NATIONAL SERVICE SCHEME (NSS)

#### UNIT-I & II



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Email: [crasonepat@gmail.com](mailto:crasonepat@gmail.com)  
Phone: 0130-2242925

Dated 18/09/2019

## Notice

This is for information to all the concerned that NSS Units (I and II) in Collaboration with YRC, Health and Hygiene Cell, organize "No Use Of Plastic" Campaign in surrounding areas on "Environmental Issues" on 22/09/2019. Presence is mandatory for all the NSS Volunteers. Report in the College sharp at 9:00 A.M.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Program Officer Unit I**

**Program Officer Unit II**



*Principal*  
Principal  
C.R.A COLLEGE  
SONIPAT  
**Principal**

1. *Prady*  
2. *Sen*  
*SA*  
*Son*  
*Pr*  
*Pr*





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Phone: 0130-2242925

### Report on "No Use of Plastic" Campaign on 22/09/2019

NSS Unit (I and II) was carried out a rally on the topic "No Use of Plastic". Principal Dr. Narender Singh gave a green flag salute to kick off the ceremony and told volunteers that we can improve our nation and community by working with NSS. Volunteers that worked extremely hard and dedicatedly with the motto "No use of plastic". All the volunteers were motivated to depart and work with honesty and discipline by Dr. Usha Dahiya.



1. *Usha*  
2. *Sun*

A Rally on "No use of Plastic"

*Narender Singh*





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Phone: 0130-2242925

**Notice**

Dated 21/09/2019

It is to inform that NSS Unit (I&II) will celebrate **NSS Day** on 24/09/2019. Presence is mandatory for all the NSS volunteers. Report in the college sharply at 9:00 am.

**Programme Officer Unit-I**

Programme Officer  
National Service Scheme  
C.R.A College Sonipat



**Programme Officer Unit-II**

Principal  
C.R.A. College  
SONIPAT

1. Duly  
2. Sr

1. A  
2. Son  
3. hi  
4. Dhata



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Phone: 0130-2242925

## REPORT on NSS Day

NSS Day was celebrated on September 24, 2019, at our college. NSS Units I and II organized a rally with the theme "No Use of Plastic." Principal Dr. Narender Singh inaugurated the event by displaying the green flag and addressing volunteers. Through NSS, we can contribute to improving our country and society. Volunteers, with great dedication and hard work, raised the slogan "Remove Polythene." They urged shopkeepers and fruit sellers to ban polythene. Dr. Sangeeta Maan motivated the volunteers to fulfill their admirable duty. Mr. Vikram Tushir and Ms. Babita were also present. Dr. Usha Dahiya inspired all volunteers to work with discipline and honesty.

*Vikram*



1 *Usha Dahiya*  
2 *Babita*





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## Sonipat-131001

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#### UNIT-II

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Phone: 0130-2242925



Rally was carried out by NSS volunteers in presence of Mr. Vikram Tushir

1. *Dakya*  
2. *Son*

*Dakya*



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Phone: 0130-2242925

Dated 13/09/2019

## NOTICE

This is for information to all concerned that NSS Unit (I and II) in collaboration with Health and Hygiene Cell will celebrate “**Gandhi Jayanti**” and “**Lal Bahadur Shastri Jayanti**” on 02/10/2019. It is mandatory for all the volunteers to attend the aforesaid.

### P.O. Unit-I

Programme Officer  
National Service Scheme  
C.R.A College Sonipat



### P.O. Unit-II

*Principal*  
Principal  
C.R.A COLLEGE  
SONEPAT  
Principal

*1. Dulya*  
*2. Sur*  
*3. [Signature]*  
*4. [Signature]*  
*5. [Signature]*  
*6. [Signature]*



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**UNIT-I & II**



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Phone: 0130-2242925

## **REPORT on the Celebration of Gandhi Jayanti and Lal Bahadur**

### **Shastri Jayanti**

On October 2, 2019, NSS Units I and II came together to commemorate the joint celebration of "Gandhi Jayanti and Lal Bahadur Shastri Jayanti." The occasion was marked by a solemn pledge on "Clean India," undertaken by dedicated volunteers in the esteemed presence of the Principal and Program Officers.

During this significant event, six outstanding volunteers were recognized and awarded prizes for their remarkable achievements in various activities conducted by MDU (Maharshi Dayanand University). Sakshi, pursuing M.A. in Political Science, earned acclaim in the Hindi Lecture category, showcasing her proficiency in linguistic expression.

Mohit, a B.Sc. student specializing in Painting, demonstrated exceptional artistic prowess, securing a prize in his respective category. Sheetal Rana, pursuing B.A. (Hons.), showcased her skill in Mehandi and emerged victorious in the Mehandi Competition.

*P. K. Singh*



*1. Ananya  
2. Sheetal*



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Jeenu, a student pursuing M. Com, displayed articulate prowess in the English Debate Competition, earning accolades for her compelling arguments. Sukhvinder, pursuing B.A., stood out in the Slogan Competition, leaving a memorable impact with a catchy and impactful slogan.

Additionally, Annu, a student specializing in B.A. (Hons.), showcased her proficiency in the Mehandi Competition, adding another feather to the collective success of NSS Units I and II.

These achievements not only reflect the diverse talents within the NSS community but also signify the commitment of these individuals to various aspects of academic and artistic excellence. Such celebrations not only honor the legacies of Mahatma Gandhi and Lal Bahadur Shastri but also reinforce the values of cleanliness and active participation that are integral to the NSS mission.

*Handwritten signature in green ink.*



*Handwritten signature in blue ink.*





Established in 1951

# CHHOTU RAM ARYA COLLEGE

## Sonipat-131001

### NATIONAL SERVICE SCHEME (NSS) UNIT-I & II



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Phone: 0130-2242925



Pledge on "Clean India" taken by volunteers

*Maw*



*1*  
*Principle*  
*2*



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Phone: 0130-2242925

Dated :- 01/10/2019

## NOTICE

This is for information to all the concerned that NSS Unit (I and II) in collaboration with YRC, Health and Hygiene Club, Sports Department will organize “SWACHHTA PAKHWADA” on 4<sup>th</sup> and 5<sup>th</sup> October 2019. Presence is mandatory for all the volunteers.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**



Principal  
C.R.A COLLEGE  
SONEPAT

**Principal**

1. Anil  
2. S. K. &  
Q.N. S.  
P. M. T.



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Phone: 0130-2242925

## **REPORT on One-Day Camp on "Swachhta**

### **Pakhwada"**

NSS Units I and II organized a One-Day Camp on "Swachhta Pakhwada" on October 4-5, 2019, as part of the 'Swachh Bharat Abhiyan.' Volunteers actively participated in cleaning their institution, including classrooms, laboratories, libraries, toilets, playgrounds, lawns, roads, and more. Principal Dr. Narender Singh motivated the volunteers, emphasizing the importance of cleanliness.

The 'Swachh Bharat Abhiyan,' launched in 2014 by the Indian government, is a nationwide cleanliness campaign with the goal of achieving a cleaner and healthier India. The initiative prioritizes proper sanitation and waste management, advocating for the construction of toilets, waste segregation, and the elimination of open defecation. Additionally, 'Swachh Bharat Abhiyan' raises awareness about personal hygiene and environmental cleanliness. With extensive community participation and governmental support, it aims to create a sustainable and hygienic living environment for all. The campaign has achieved significant success in

*Handwritten signature in green ink.*



*Handwritten signatures in blue ink.*



Established in 1951

# CHHOTU RAM ARYA COLLEGE

## Sonipat-131001

### NATIONAL SERVICE SCHEME (NSS)

#### UNIT-II

Website: [www.cracollegesonepat.org](http://www.cracollegesonepat.org)

Email: [crasonepat@gmail.com](mailto:crasonepat@gmail.com)

Phone: 0130-2242925

Transforming attitude toward cleanliness and sanitation, therefore contributing to the overall well-being of the nation.



1. *Dulje*
2. *Sat*

One Day Camp on "Swachhta Pakhwada"

*Nitesh*





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Phone: 0130-2242925

Dated 07/10/2019

## Notice

This is for information to all the concerned that NSS Unit (I and II) in Collaboration with Health and Hygiene Cell will organize a rally on "Clean India, Healthy India" on 10/10/2019. Presence is mandatory for all the NSS Volunteers. Report in the College sharp at 9:00 A.M.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Program Officer Unit I**

**Program Officer Unit II**



*[Signature]*  
Principal  
C.R.A COLLEGE  
SONEPAT  
**Principal**

1. *[Signature]*

2. *[Signature]*

*[Signature]*  
*[Signature]*  
*[Signature]*  
*[Signature]*





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## Report on Rally on “Clean India, Healthy India” on 10/10/2019

NSS Units (I and II) organized a rally on Clean India, Healthy India on 10/10/2019. One ninety active and eager volunteers took part in this rally. This rally was flagged out by Principal Dr.Narender Singh in the presence of both P.O’s. By improving sanitation facilities and promoting cleanliness the mission has helped reduce the spread of diseases an improving overall hygiene practices.



Rally on “Clean India,Healthy India”

1.   
2. 





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Dated 18/10/2019

## NOTICE

This is for information to all the concerned that NSS Unit (I and II) in collaboration with YRC, Health & Hygiene Cell is going to organise "PRABHAT PHERI" on 23/10/2019. Presence is compulsory for all the volunteers.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**



Principal  
C.R.A COLLEGE  
SONEPAT  
**Principal**

1. Dulya  
2. Saha  
Bh

S  
S  
S  
S  
S



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## Report on Prabhat Pheri

NSS Units (I and II) organised a "Prabhat Pheri" on 'Climate Change' in college on 23<sup>rd</sup> October 2019. During the Pheri, volunteers aware people to keep their environment clean. P.O. Dr. Usha Dahiya and Dr. Manita guided the volunteers.



1 *Usha Dahiya*

2 *Manita*

Volunteers' aware people about climate change in the presence of P.O.

*Manita*



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Phone: 0130-2242925

Dated 28/01/2020

### NOTICE

It is to inform that NSS Unit (I and II) in collaboration with Eco Club, Health & Hygiene Club going to organise “One-Day Cleanliness Drive” on 31/01/2020. It is mandatory for all the NSS volunteers to be the part of it.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**



*New*  
Principal  
C.R.A COLLEGE  
SONEPAT

**Principal**

1. Dulya

2. Rudh

D  
Sun

Pr  
Pr





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## REPORT on Cleanliness Drive

On the 31st of January 2020, NSS Units I and II collaborated to organize a comprehensive One-Day Camp centered on the theme of "Cleanliness Drive." The dedicated volunteers gathered with a shared goal of enhancing the cleanliness of the surroundings, focusing on the C.R.Z. school and the hockey ground. In a collective display of enthusiasm, the volunteers actively engaged in various cleanliness activities, contributing their efforts to uplift the environmental hygiene of the designated areas. This initiative not only aimed at fostering a sense of responsibility towards cleanliness but also promoted a spirit of community service among the participating volunteers, reinforcing the commitment of NSS to societal well-being.

*1/1/20*



1 *Aranya*  
2 *Aranya*



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Cleanliness Drive in C.R.Z. School Hockey Ground

*N. K. Singh*



1. *Dalya*  
2. *W. S. J.*

**2020-21**



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Phone: 0130-2242925

Dated: 27-07-2020

## Notice

This is for information to all the concerned that NSS UNIT (I & II) in collaboration with Health and Hygiene Club and YRC will organise an activity “**College Sanitization**” in the college campus on 1<sup>st</sup> August, 2020 at 10:00 am. Presence is mandatory for all the NSS volunteers in college at 09:00 am.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

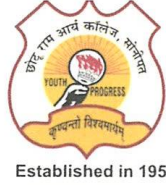
**N.S.S. Unit I and II**



Principal  
C.R.A COLLEGE  
SONEPAT

**Principal**





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## Report on College Sanitization

NSS Unit (I and II) organised a **Sanitization Program** in our college campus on 1<sup>st</sup> August, 2020 at 10 am. During this drive, the NSS volunteers sanitised all the classrooms of the college campus. 50 students participated in this drive. The whole team enthusiastically participated and completed the activity.



Sanitization Programme in college campus during Covid-19

*Netu*



*Deviya*  
*Qm*



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Dated: 8-02-2021

### Notice

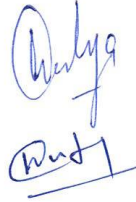
All the NSS volunteers are hereby informed that “**Seven Days Special Camp**” will be organised from 12/02/2021 to 18/02/2021 in village: Kakroi, Distt. Sonipat. Presence is mandatory for all the NSS volunteers at 09:00 am. Volunteers must carry the following items with them:

1. Beddings and blanket
2. Toiletry Kit
3. Sports Shoes
4. NSS Cap

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

Programmer Officer

N.S.S. Unit I and II





  
Principal  
C.R.A COLLEGE  
SONEPAT

Principal



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## Report on Seven Days Special Camp

**Seven Day NSS Camp** was organised by NSS Unit (I and II) from 12/02/2021 to 18/02/2021 at GSSS, Village Kakroi, Distt. Sonapat. The theme of the camp was “**Road Safety**” as February is observed as the road safety month. The camp was inaugurated by **Dr. Jyoti Raj**, Associate Professor in English, Govt P.G College for Women, Rohtak. She gave information about NSS and told the ways how the volunteers can progress further.

On the **Second day**, Cultural events were organised. The volunteers were actively participated in cultural activities like dancing, singing, play etc.

On the **third day**, the camp initiated with various sports activities like 200& 400 meter Race, Pair Race and Tug of War etc. After the sports activities, a cleanliness drive began in which playground of school was cleaned by the volunteers.

On the **fourth day**, the **Tree Plantation Drive** was conducted in the village by the volunteers. Volunteers were highly enthusiastic and promised to inculcate the environmental dos and don'ts in their daily lives.

On the **fifth day**, NSS Camp started early with ‘**Prabhat Pheri**’ in the village that was conducted under the **Fit India Movement**. The event was conducted while following all the precautionary COVID

*Prabhat*



*Prabhat*  
*Raj*



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protocols. It was followed by the Morning Prayer and Lakshya Geet of NSS, where NSS Programme Officers along with volunteers started the day with the blessings of Almighty.

On the **Sixth Day**, an interactive session was conducted in which Dr. Usha Dahiya informed the villagers about the HIV/AIDS and how can lead a normal life even if contracted with HIV. Several myths regarding the disease were busted during the session. Sheen lightened the volunteers about the precautions, the session ended with question-answer round.

On the **Valedictory Day**, Dr. Rajesh Hooda, HOD of Law Department, BPS University, Khanpur was invited as the chief guest and Mr. Harish, NSS National State and Governor Awardee was the Guest of Honor. Mayank Rana and Somvir were awarded as best volunteers of their respective units. Shukvinder and Ram Niwas were awarded as Best Team Leaders.

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*Handwritten signature in blue ink.*





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Dr. Jyoti Raj was facilitated as a Chief Guest

*New*



*Jyoti Raj*  
*[Signature]*



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Awareness Rally on HIV/AIDS



Some glimpses of Seven Day NSS Camp

*Ukw*



*Walya*  
*Walya*



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- 1.
- 2.





**2021-22**



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Phone: 0130-2242925

Dated: 10/11/2021

## Notice

This is for information to all the concerned that NSS UNIT (I & II) in collaboration with Outreach Programme, Health and Hygiene Club and Eco Club will organise **“One Day Cleanliness Campus Drive”** on 13<sup>th</sup> November 2021. In this Camp, presence is mandatory for all the NSS volunteers at 10:00 am.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**



*D. K. Singh*  
Principal  
C.R.A. COLLEGE  
SONIPAT

**Principal**

*Dulga*  
*Praveen*  
*Manoj*  
*Praveen*  
*Manoj*  
*Praveen*



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**Sonipat-131001**

**NATIONAL SERVICE SCHEME (NSS)**

**UNIT-I & II**



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## Report on One Day Cleanliness Campus Drive

The NSS Unit (I and II) organized the “One Day Cleanliness Campus Drive” in our college with the collaboration of the Eco Club, Outreach Programme, and Health & Hygiene on 13th November 2021 at 10.00 am. The Programme was inaugurated by our worthy Principal, Dr. Narender Singh, and NSS Programme officers. Dr. Narender Singh motivated NSS volunteers to promote cleanliness and hygiene and eliminate open defecation. Dr. Usha Dahiya and Dr. Manita encouraged the students and engaged them in cleaning activities. During the cleanliness drive, the volunteers wore gloves and collected all the degradable and non-degradable solid waste, including glass bottles, cans, and plastic waste. The collected waste material was disposed of in the dustbin. Finally, the volunteers were instructed to clean their hands with soap.

*Dr. Narender Singh*



*Dr. Usha Dahiya*

*Dr. Manita*



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Volunteers participated in Cleanliness Campus Drive

*DKW*



*Devy*

*ant*





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Phone: 0130-2242925

Dated:- 24/12/2021

## Notice

This is for information to all the concerned that NSS UNIT (I & II) in collaboration with Outreach Programme, Health and Hygiene Cell and Eco Club will organise “**One Day Cleanliness Campus Drive**” on 28<sup>th</sup> December 2021. Under this, presence is mandatory for all the NSS volunteers in the college at 10:00 am.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat  
Programmer Officer

Principal  
C.R.A COLLEGE  
SONIPAT

N.S.S. Unit I & II

1. Dulya  
2. Qesh



Principal  
N.S.S. Unit I & II  
Muzak



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Phone: 0130-2242925

## Report on Clean Campus Drive

A "Clean Campus Drive" was conducted on 28<sup>th</sup> December 2021 by NSS volunteers to clean the NSS room and the surrounding area of the college building. The main purpose of this camp was to create awareness among the volunteers regarding Cleanliness and its benefits. With zest and zeal, the enthusiastic students steered the drive to success through their efforts and the support of the college. Programme Officer Dr. Usha Dahiya appreciated the volunteers for their hard work. It is important to make students understand that our surrounding area should remain neat and clean. At last, refreshments were given to all the volunteers.



Students Participated in "Clean Campus Drive"

1. *[Signature]*  
2. *[Signature]*



*[Signature]*



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Phone: 0130-2242925

Dated: 29/12/2021

## Notice

All the NSS volunteers are informed that “**Seven Days NSS Camp**” will be organised from 01/01/2022 to 07/01/2022 in village: Garhi Bharhmna, Distt. Sonipat. Presence is mandatory for all the NSS volunteers at 09:00 am. Volunteers must carry the following items with them:

1. Beddings and blanket
2. Toiletry Kit
3. Sports Shoes
4. NSS Cap

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**



N.S.S.  
National Service Scheme  
C.R.A. COLLEGE  
SONIPAT

**Principal**

*Analya*

*Unit I*

*Panika* *Princa*  
*Unit I* *Princa*



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### Report of Seven Day Camp



| Sr.No. | Date            | Activity   | Objective   |
|--------|-----------------|--|---|
| 1.     | January 1, 2022 | <p>*Inauguration of the Camp by Dr. Narender Singh, Principal CRA College and Sh. Japan Singh, Associate Professor of Political Science.</p> <p>*Staff and students planted saplings.</p> <p>*Lecture on "Cashless Transaction and Digital India" by Shri R. R. Chahal, Dept. of Commerce in the evening session</p> | <p>*To motivate volunteers to dream high and to educate them about an eco-friendly environment.</p> <p>*To encourage volunteers to make use of digital transactions in their lives.</p> |
| 2.     | January 2, 2022 | <p>*Cleanliness Drive.</p> <p>*Sports activities like 100 m race, 200 m Race, Long Jump, Tug of War, three-Legged Race etc. were organized.</p> <p>*Dr. Subhash Sisodia organized a comedy convention among the volunteers</p>   | <p>*To make the environment and surroundings neat and clean.</p> <p>*To enhance team spirit among volunteers</p>  |
| 3.     | January 3, 2022 | <p>Interactive talk by Dr. Jaiveer Hooda on "Every Person Has a Golden Opportunity in His Life."</p> <p>Training on "Cooking and Handicraft."</p>  | <p>To develop skills and Positive Attitude.</p>   |
| 4.     | January 4, 2022 | <p>Interactive talk on "Mushroom Farming as well as Organic Farming"</p>   | <p>To create awareness regarding Organic Farming and Mushroom Farming</p>   |

*View*

*and* *Duly*





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|    |                 |   |                                       |
|----|-----------------|---|---------------------------------------|
| 5. | January 5, 2022 | 1. Interactive talk by Dr. Mayur Chikkara "Beti Bachao and Beti Padhao."<br>2. Talk by Dr. Dharmveer Dahiya on "Swachh Bharath Abhiyan and Traffic Rules."  | To create Awareness and Confidence.   |
| 6. | January 6, 2022 | *Interactive talk by Dr. Sudhir Garg on "Style of Swami Vivekananda ji."<br>*Rangoli Making, Poster Making, Slogan Writing, Mehndi and Painting Competitions were organized and announcement of Best Athlete, Best Speaker and Best Entertainer | To Build Confidence among Volunteers. |
| 7. | January 7, 2022 | Valedictory Ceremony of the Camp with Nukkad Natak, Songs, and Group Dance.   |                                       |

*Praveen*



*Anjali*  
*Anjali*



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Students take up "Clean Campus Drive"



*Handwritten signature in green ink.*

*Handwritten signature in black ink.*

*Handwritten signature in blue ink.*

**2022-23**



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Phone: 0130-2242925

Dated:- 02/05/2022

### Notice

This is for information to all the concerned that NSS (Unit-I and II) in collaboration with Health & Hygiene Cell, and Eco-Club will organise **"One Day Cleanliness Drive"** on 05.05.2022. Presence is mandatory for all the NSS volunteers. Report in the college at 9:00 am.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat



Principal  
C.R.A COLLEGE  
SONEPAT  
Principal

**Programmer Officer**

**N.S.S. Unit I and II**

1. Dadya  
2. Anshu  
Kang  
Pinki  
Mulan  
S. Anand





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Phone: 0130-2242925

### Report on “Clean India Campaign” under One Day NSS Camp

NSS Units-I and II organised a Cleanliness Campaign during One Day NSS Camp. Details are given below.

|         |   |   |         |               |   |        |
|---------|---|---|---------|---------------|---|--------|
| 1.      | <b>Name of Activity/Event</b>                               | Clean India Campaign under One Day NSS Camp   |         |               |   |        |
| 2.      | <b>Date of Activity/Event</b>                               | 05/05/2022  |         |               |   |        |
| 3.      | <b>Place of Activity/Event</b>                              | C.R.A. College Campus, Sonipat  |         |               |   |        |
| 4.      | <b>Association with / Collaboration with / Organization</b> | C.R.A. College, Sonipat   |         |               |   |        |
| 5.      | <b>Type of activity/event</b>                               | Swachh Bharat Abhiyan   |         |               |   |        |
| 6.      | <b>Activity/Event objectives</b>                            | The mission of this campaign was to make the participants aware about the cleanliness and its repercussions in their daily life. They were farther informed that how this can contribute in making India clean and green. |         |               |   |        |
| 7.      | <b>Participation</b>  | <table border="1"><tr><td>Faculty</td><td>Participation</td></tr><tr><td>4</td><td>95+100</td></tr></table>   | Faculty | Participation | 4 | 95+100 |
| Faculty | Participation   |   |         |               |   |        |
| 4       | 95+100  |   |         |               |   |        |



*P. K. Singh*  
Principal  
C.R.A. COLLEGE  
SONEPAT

Programme Officer  
National Service Scheme  
C.R.A. College Sonipat

1. *[Signature]*  
2. *[Signature]*



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# CHHOTU RAM ARYA COLLEGE

## Sonipat-131001

### NATIONAL SERVICE SCHEME (NSS)

#### UNIT-I & II



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Email: [crasonepat@gmail.com](mailto:crasonepat@gmail.com)

Phone: 0130-2242925



CLEAN INDIA CAMPAIGN



Principal  
C.R.A. COLLEGE  
SONIPAT

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

- 1.
- 2.



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*Dated: 15/02/23*

## Notice

This is for information to all the concerned that NSS Unit (I & II) in collaboration with Outreach Programme will organise **Seven Day Special Camp** from 21.02.2023 to 27.02.2023. Presence is mandatory for all the NSS volunteers. Volunteers are hereby directed to report in the college campus at 09:00 am. Certificate will be given to the volunteers, who will participate in the camp. Volunteers must carry the following items with them:

1. Beddings and blanket
2. Toiletry Kit
3. Sports Shoes
4. NSS Cap

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I and II**

1. *[Signature]*
2. *[Signature]*



*[Signature]*  
Principal  
C.R.A COLLEGE  
SONEPAT

**Principal**



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**Sonipat-131001**

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**Report of Special Seven Days Camp organised by NSS  
(UNIT-I & II) in Badhana Village held on 21.02.23 to 27.**

**02.23**

Seven Day Special Camp was organised at Govt. Sr. Sec. School, Bhadana from 21.02.2023 to 27.02.2023. The Camp was inaugurated by our Principal Dr. Narender Singh. During the camp, volunteers actively participated in social, physical, cultural and sports activities. Apart from various competitions, and activities the routine of the volunteers was watering the plants, mending of flower-beds and cleaning of their surroundings. Kamal and Pardeep were declared as the Best Volunteers of their respective units. Mayank was awarded as the Best Speaker of the camp.

**Day-1:** Camp was formally inaugurated by the Chief Guest Dr. Narender Singh, Principal of our college. NSS Programme Officer, Dr. Usha Dahiya and Dr. Manita welcomed the Chief Guest. The inaugural session started with the lighting of lamp and saraswati vandana. Thereafter, Dr. Usha Dahiya gave a presentation over **“Preventive Measures of Omicron”**.

Volunteers aware the villagers about the Omicron’s variant. Variant has raised significant concerns globally due to its rapid spread and mutations in the SARS-CoV-2 virus. To increase awareness among the villagers, it is crucial to stay them informed about the latest developments from reliable sources such as health organizations and government updates. Implementation of preventive measures like vaccination, wearing masks, practicing good hand hygiene, and maintaining social distancing on the only ways to prevent from this diseases. They were

*N. Singh*  
Principal  
C.R.A. COLLEGE  
SONIPAT

Programme Officer  
National Service Scheme  
C.R.A. College Sonipat

1. *Usha Dahiya*  
2. *Manita*





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informed that Vigilance and prompt adherence to health guidelines are essential to curb the potential impact of the Omicron variant. As the situation is challenging, collective efforts in adhering to safety protocols can contribute to mitigate the spread and ensuring public health.

**Day-2:** Volunteers assembled in the campus and the report of the works carried out during the previous day was discussed. A Lecture was delivered by Chief Guest Mr. Vikram Tushir, Assistant Professor, Department of Political Science on the topic “**Biography of Mohandas K. Gandhi**”. After this informative lecture, the volunteers continued their contribution in the cleanliness of the school surrounding areas and motivated the villagers to adopt procedure of cleanliness.

**Day-3:** Third day of the camp started with the routine activities of the morning session. Thereafter, the volunteers collected garbage dumped around the school. Dr. Sangeeta Mann was invited as a chief guest from Shaheed Dalbir Singh Govt. College, Kharkhoda. Dr. Usha Dahiya and Dr. Manita gave her a flower pot as a token of gift. She delivered an informative and pragmatic lecture on the maintenance of personal hygiene as well as the need of personal health monitoring

**Day-4:** On the Fourth day of the camp, volunteers witnessed various programmes like in which the villagers participated eagerly in cycle racing, painting, and declamation. During the afternoon session, volunteers cleaned surrounding of the school campus and participated in cultural activity during the night session.

**Day-5:** Morning session of fifth day of the camp started with cultural and sports activities. Sanju got first position in 100 meter race. Komal got second position. Priyanka got third position.

**Day-6:** On the sixth day of the camp, the students sanitized the school. They also participated in various cultural activities. Dr. Urmil Hooda, Assistant Professor of

*Principal*  
Principal  
C.R.A. COLLEGE  
SONIPAT

Programme Officer  
National Service Scheme  
G.R.A. College Sonipat

1. *[Signature]*  
2. *[Signature]*



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English was invited as a special guest from our college. She delivered an informative lecture on the importance of education.

**Day-7:** On the last day of the camp, volunteers taught the villagers about the skills of making hair bands and purses. The aim was to sustain the cultural and regional folk out entrepreneurship among students as well as villagers in line with the main theme of the NSS camp i.e. **“Educated Youth and Self Reliant India”**. Dr. Ranbir Singh Gulia, ex MDU Co-ordinator was invited as the chief guest. He developed the lecture on the importance of NSS activities in upholding the age old tendency maintenance of cultural heritage.

National Service Scheme  
C.R.A College Sonipat

*[Handwritten signature]*

Principal  
C.R.A COLLEGE  
SONIPAT

1. *[Handwritten signature]*  
2. *[Handwritten signature]*



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## हवन यज्ञ के साथ सात दिवसीय एनएसएस कैंप का किया शुभारंभ

सोनीपत/एक्शन इंडिया ब्यूरो शहर के प्रतिष्ठित शिक्षण संस्थान छोटू राम आर्य महाविद्यालय में नव वर्ष की शुरुआत के साथ ही हवन यज्ञ के शुभ मुहूर्त के साथ सामाजिक कल्याण के लिए एनएसएस शिविर का शुभारंभ किया गया। एनएसएस टुकड़ियों को दो इकाइयों में बांटा गया प्रथम इकाई की एनएसएस कार्यक्रम निरीक्षक पदाधिकारी डॉ. उषा दहिया व इकाई दो की कार्यक्रम निरीक्षक पदाधिकारी डॉ. मनीता मैडम को कार्यभार दिया गया है। महाविद्यालय के प्राचार्य डॉक्टर नरेंद्र सिंह जी व टीकाराम एजुकेशन सोसाइटी के



वरिष्ठ कार्यकारिणी सदस्य श्री रामचंद्र जी शास्त्री ने एनएसएस वॉलंटियर्स को प्रेरित करते हुए सात दिवसीय कार्यक्रम की शुरुआत की ताकि वह जिज्ञासु प्रवृत्ति के साथ सामाजिक कल्याण की प्रवृत्तियों को

अमलीजामा पहना सके। आज प्रथम दिवस के दौरान एनएसएस वॉलंटियर्स ने कॉलेज प्रांगण से लेकर आसपास के क्षेत्र के लोगों को 'ओमीकोरोन' से बचाव रखने के लिए प्रेरित किया।

**Inauguration of Seven Days Camp in the presence of Senior Executive Member of T.R.E.S Pt. Ramchander Shastri, Principle Dr. Narender Singh, PO Dr. Usha Dahiya and Dr. Manita**

*Narender Singh*  
Principal  
C.R.A. COLLEGE  
SONIPAT  
Programme Officer  
National Service Scheme  
C.R.A. College Sonapat  
*Usha Dahiya*  
*Manita*







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Cleanliness done by the NSS volunteers

Programme Officer  
National Service Scheme  
C.R.A. College Sonipat

Programme Officer  
National Service Scheme  
C.R.A. College Sonipat

1. *[Signature]*
2. *[Signature]*







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NSS volunteers with P.O. Dr. Manita



*Dr. Manita*  
Principal  
C.R.A. COLLEGE  
SONIPAT

Programme Officer  
National Service Scheme  
C.R.A. College, Sonipat

1. *[Signature]*
2. *[Signature]*



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dated: 01/03/23

### Notice

It is hereby to inform that NSS Unit (I & II) will organise **Personality Day** on 05.03.2023. Presence is mandatory for all the NSS Volunteers. Report in the college sharply at 9:00 am.

Programme Officer  
National Service Scheme  
C.R.A. College Sonipat

**Programmer Officer**

**N.S.S. Unit I and II**



Principal  
C.R.A. COLLEGE  
SONEPAT

**Principal**

1. *[Signature]*  
2. *[Signature]* *[Signature]* *[Signature]*



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## Report on Personality Day

NSS Unit (I and II) organised “**Personality Day**” on 5<sup>th</sup> March 2023. Program Officers Dr. Usha Dahiya and Dr. Manita started the programme oath taking ceremony of the volunteers. As the third major component of education, the NSS is a part of our academic, social, and personal lives. It enables students to actively off time and talents to the betterment of society and country, thereby assisting in the development of their personalities. Personality Day is a celebration that acknowledges the uniqueness and individuality of each person. It serves as a reminder that diversity in personalities is what makes our world rich and vibrant. On this day, people come together to appreciate and embrace the diverse qualities that define us as individuals. It's an opportunity to reflect on the importance of self-awareness and acceptance, fostering an environment where everyone feels valued for who they are. Personality Day encourages us to celebrate the quirks, strengths, and differences that collectively contribute to the tapestry of humanity. It's a day to promote understanding, respect, and unity, emphasizing that our unique personalities should be embraced as assets that enrich our shared human experience.



*Manita*  
Principal  
C.R.A. COLLEGE  
SONEPAT

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

*Usha Dahiya*  
Dr. Manita





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Phone: 0130-2242925



Students dressed up on Personality Day

Programme Officer  
National Service Scheme  
C.R.A College Sonipat



*Principal*  
Principal  
C R A COLLEGE  
SONEPAT

1. *Dulya*  
2. *Wah*





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Phone: 0130-2242925



Examine Officer  
National Service Scheme  
A. College Sonipat

Students dressed up on Personality Day



*Principal*  
CHHOTU RAM ARYA COLLEGE  
SONIPAT  
Principal  
i. *Dubey*  
@wst

**2018-19**



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**Sonipat-131001**

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Phone: 0130-2242925

Dated: 08/03/2019

## Notice

All the NSS volunteers are hereby informed that “**Seven Days NSS Camp**” will be organised from 13/03/2019 to 19/03/2019 in village: Tihar Bhagroo, Distt. Sonipat. Presence is mandatory for all the NSS volunteers. Volunteers are hereby directed to report in the college campus at 09:00 am. Certificate will be given to the volunteers, who will participate in the camp.

Programmer  
National Service Scheme  
C.R.A. College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**

1. B.K.

2. R.P.



Principal  
C.R.A. COLLEGE  
SONIPAT  
Principal



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Phone: 0130-2242925

## Report of Seven Day Special Camp



**Seven Day Special Camp** was organised by NSS Unit( I & II) from 13/03/2019 to 19/03/2019 at Govt. Girls Sr. Sec. School, Tihar Bhagroo, Distt. Sonapat. Dr. Narender Singh inaugurated the camp. The Chief Guest on that occasion was Mrs. Krishna Khatri, Head Mistress of the school.

On the **second day**, the cultural event was conducted in the school. The purpose of the program was to encourage the freedom of expression among the villagers. The main theme of the event was traditional art performances. The program was successful in proving the spirit of the people living in the rural areas.

On the **third day**, the camp was initiated with various activities like Essay writing, Cricket and Football Matches. A short speech about the duties of an NSS volunteer and the importance of helping others was given by Programme Officer Dr Rajiv Kumar.

On the **fourth day**, a short speech on the importance of education was given by Programme Officer Dr B.K Singh. Then the volunteers proceeded to clean the surroundings of the School. They were assigned to different areas of the school. The whole day was full of activities. The main objective was to inculcate the spirit of selfless service and voluntary work among the volunteers.

On the **fifth day**, the tree plantation drive was conducted in the school. After that, a soft skill training session and a Personality Development class were conducted. The day ended with the cultural session.

On the **sixth day**, the sports activities were conducted in the school playground like Tug of War, 100 & 200-meter races etc. Our Hon'ble Principal Dr. Narender Singh interacted with volunteers and motivated them to give their best for nation-building.

On the **valedictory day**, Satyabir Singh Malik (RTO) addressed the volunteers. Kamal and Pardeep were declared as the best volunteers





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of their respective units. Mayank was awarded the best speaker of the Camp.



Dr. B.K. Singh Addressed the NSS Volunteers



Dr. Satyabir Singh Malik was felicitated as Guest of Honour

1. Bhai  
2. Ref



NKS

**2019-20**



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Dated - 30/07/2019

## NOTICE

The volunteers are hereby directed that NSS Unit (I and II) in collaboration with Eco Club going to organise “**Tree Plantation Drive**” under **Harit Haryana Scheme** on 03/08/2019. Presence is compulsory for all the volunteers. Plants and manure will be provided by the NSS Office.

Programmer Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**

1. Bk
2. Bel
- 3.



Principal  
C.R.A COLLEGE  
SONEPAT

**Principal**

Handwritten signatures and initials in blue ink, including a large signature and several smaller ones.



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# CHHOTU RAM ARYA COLLEGE

## Sonipat-131001

### NATIONAL SERVICE SCHEME (NSS)

#### UNIT-II

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Phone: 0130-2242925



## REPORT

NSS Units (I and II) organised a **One-Day Camp** in collaboration with Eco Club on the theme "**Harit Haryana**" on 3<sup>rd</sup> August 2019. 180 volunteers actively participated in camp. On this occasion, two hundred saplings of medicinal plants planted in college. P.O Dr. B.K. Singh said that tree plantation is a proactive approach to environmental conservation and sustainability.



Tree Plantation by volunteers

1. Bk  
2. Rel

*[Handwritten signature in green ink]*





# CHHOTU RAM ARYA COLLEGE

(Affiliated to M.D. University, Rohtak)  
SONEPAT-131001 (HARYANA)

Phone : 0130-2242925, Fax : 0130-2242925 E-mail : crasonepat@gmail.com Web : www.cracollegesonepat.org

Ref. No. CRA/.....

Date 16/03/2020

## Notice

This is for information to all the concerned that Geography Department will organize "Slogan Writing Competition" on "Save Earth" on 18/03/2020. Interested Students report in Geography Department sharp at 9:00 A.M.

*Sadhana Tyagi*

**Head of Department**  
Dr. Sadhana Tyagi

*Principal*

**Principal**  
C.R.A. COLLEGE  
SONEPAT



Estd. 1951

*Handwritten mark*

*Handwritten signatures:*  
Mukul Singh  
Sadhana Tyagi  
Panama  
Rishi



# CHHOTU RAM ARYA COLLEGE

(Affiliated to M.D. University, Rohtak)  
SONEPAT-131001 (HARYANA)

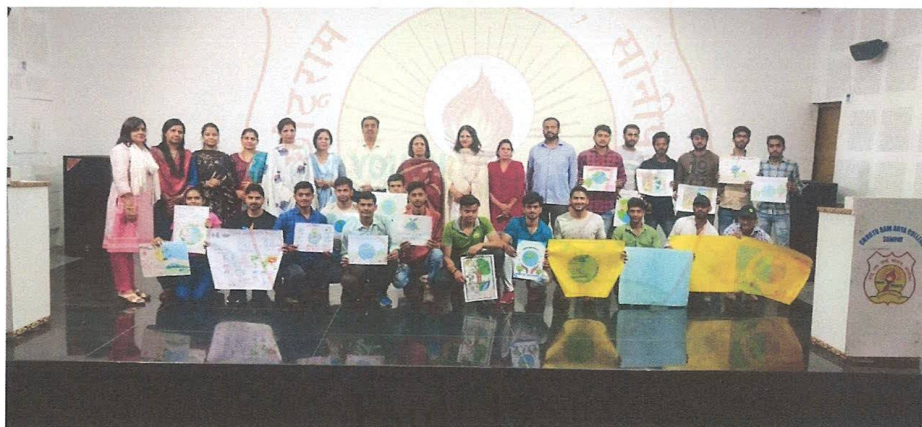
Phone : 0130-2242925, Fax : 0130-2242925 E-mail : crasonepat@gmail.com Web : www.cracollegesonepat.org

Ref. No. CRA/.....

Date.....

## Report on "Slogan Writing on Save Earth" held on 18/03/2020

Geography Department organized a slogan writing competition on 18/03/2020. Dr. Sadhana Tyagi welcomed Dr. Narender Singh, Principal of our college. Fifteen students participated in this competition. Prizes were given to the winners. Dr. Sadhana Tyagi inspired the students to save the Earth. Save Earth is a call to action, urging people protect and conserve the planet's natural resources, ecosystem and environment.



Winners with Principal Dr.Narender Singh, Dr.Sadhna Tyagi, Dr.Usha Dahiya.

*Sadhna*



*Narender*

**2020-21**



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UNIT-I & II



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Phone: 0130-2242925

Dated: 8-02-2021

### Notice

All the NSS volunteers are hereby informed that “**Seven Days Special Camp**” will be organised from 12/02/2021 to 18/02/2021 in village: Kakroi, Distt. Sonipat. Presence is mandatory for all the NSS volunteers at 09:00 am. Volunteers must carry the following items with them:

1. Beddings and blanket
2. Toiletry Kit
3. Sports Shoes
4. NSS Cap

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

Programmer Officer

N.S.S. Unit I and II

*(Handwritten signature)*  
*(Handwritten signature)*



*(Handwritten signature)*  
Principal  
C.R.A COLLEGE  
SONEPAT

Principal





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**Sonipat-131001**

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Phone: 0130-2242925

## Report on Seven Days Special Camp

**Seven Day NSS Camp** was organised by NSS Unit (I and II) from 12/02/2021 to 18/02/2021 at GSSS, Village Kakroi, Distt. Sonapat. The theme of the camp was “**Road Safety**” as February is observed as the road safety month. The camp was inaugurated by **Dr. Jyoti Raj**, Associate Professor in English, Govt P.G College for Women, Rohtak. She gave information about NSS and told the ways how the volunteers can progress further.

On the **Second day**, Cultural events were organised. The volunteers were actively participated in cultural activities like dancing, singing, play etc.

On the **third day**, the camp initiated with various sports activities like 200& 400 meter Race, Pair Race and Tug of War etc. After the sports activities, a cleanliness drive began in which playground of school was cleaned by the volunteers.

On the **fourth day**, the **Tree Plantation Drive** was conducted in the village by the volunteers. Volunteers were highly enthusiastic and promised to inculcate the environmental dos and don'ts in their daily lives.

On the **fifth day**, NSS Camp started early with ‘**Prabhat Pheri**’ in the village that was conducted under the **Fit India Movement**. The event was conducted while following all the precautionary COVID

*Prabhat*



*Prabhat*  
*Raj*



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protocols. It was followed by the Morning Prayer and Lakshya Geet of NSS, where NSS Programme Officers along with volunteers started the day with the blessings of Almighty.

On the **Sixth Day**, an interactive session was conducted in which Dr. Usha Dahiya informed the villagers about the HIV/AIDS and how can lead a normal life even if contracted with HIV. Several myths regarding the disease were busted during the session. Sheen lightened the volunteers about the precautions, the session ended with question-answer round.

On the **Valedictory Day**, Dr. Rajesh Hooda, HOD of Law Department, BPS University, Khanpur was invited as the chief guest and Mr. Harish, NSS National State and Governor Awardee was the Guest of Honor. Mayank Rana and Somvir were awarded as best volunteers of their respective units. Shukvinder and Ram Niwas were awarded as Best Team Leaders.

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Established in 1951

# CHHOTU RAM ARYA COLLEGE

## Sonipat-131001

NATIONAL SERVICE SCHEME (NSS)  
UNIT-I & II



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Dr. Jyoti Raj was facilitated as a Chief Guest

*Neeraj*



*Jyoti Raj*  
*Chief Guest*





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Awareness Rally on HIV/AIDS



Some glimpses of Seven Day NSS Camp

*Ukw*



*Walya*  
*Walya*





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Dated: 25-02-2021

### Notice

All the students are hereby informed that NSS UNIT (I & II) to organise a **“Tree Plantation Program”** in collaboration with Eco Club and YRC on 01<sup>st</sup> March 2021 at 10:00 am. All the volunteers are invited to take part in the program to make it a grand success.

Programmer Officer of  
National Service Scheme  
C.R.A. College Sonipat

**Programmer Officer**

**N.S.S. Unit I and II**



Principal  
C.R.A. COLLEGE  
SONEPAT  
Principal





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## Report on Tree Plantation Drive

A **Tree Plantation Drive** was held in the college premises on 1<sup>st</sup> March, 2021. Objectives of this drive were to enhance the medicinal tree in the campus and to sensitize the students towards importance of medicinal and herb plants. In this program, NSS volunteers were motivated to plant a tree and take care of it, by respective PO's. Our Principal Sir were give information about the name and type of tree, colour of its flowers, its blooming season and about what are they expected to do to take care of it. On this occasion one tree each was planted by our respected Principal Dr. Narender Singh followed by Programme Officers Dr. Usha Dahiya and Dr. Manita.



**Tree Plantation Drive**

*Narender*



*Dahiya*  
*Manita*





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**Tree Plantation Drive**



*Neer*



*Auliyg*  
*Amrj*

**2021-22**



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Dated: 29/12/2021

## Notice

All the NSS volunteers are informed that “**Seven Days NSS Camp**” will be organised from 01/01/2022 to 07/01/2022 in village: Garhi Bharhmna, Distt. Sonipat. Presence is mandatory for all the NSS volunteers at 09:00 am. Volunteers must carry the following items with them:

1. Beddings and blanket
2. Toiletry Kit
3. Sports Shoes
4. NSS Cap

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I & II**



NSS  
National Service Scheme  
C.R.A COLLEGE  
SONIPAT

**Principal**

*Analya*

*Unit I*

*Panika* *Princa*  
*Unit I* *Princa*



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### Report of Seven Day Camp



| Sr.No. | Date            | Activity   | Objective   |
|--------|-----------------|--|---|
| 1.     | January 1, 2022 | <p>*Inauguration of the Camp by Dr. Narender Singh, Principal CRA College and Sh. Japan Singh, Associate Professor of Political Science.</p> <p>*Staff and students planted saplings.</p> <p>*Lecture on "Cashless Transaction and Digital India" by Shri R. R. Chahal, Dept. of Commerce in the evening session</p> | <p>*To motivate volunteers to dream high and to educate them about an eco-friendly environment.</p> <p>*To encourage volunteers to make use of digital transactions in their lives.</p> |
| 2.     | January 2, 2022 | <p>*Cleanliness Drive.</p> <p>*Sports activities like 100 m race, 200 m Race, Long Jump, Tug of War, three-Legged Race etc. were organized.</p> <p>*Dr. Subhash Sisodia organized a comedy convention among the volunteers</p>   | <p>*To make the environment and surroundings neat and clean.</p> <p>*To enhance team spirit among volunteers</p>  |
| 3.     | January 3, 2022 | <p>Interactive talk by Dr. Jaiveer Hooda on "Every Person Has a Golden Opportunity in His Life."</p> <p>Training on "Cooking and Handicraft."</p>  | <p>To develop skills and Positive Attitude.</p>   |
| 4.     | January 4, 2022 | <p>Interactive talk on "Mushroom Farming as well as Organic Farming"</p>   | <p>To create awareness regarding Organic Farming and Mushroom Farming</p>   |

*View*

*and* *Duly*





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|    |                 |   |                                       |
|----|-----------------|---|---------------------------------------|
| 5. | January 5, 2022 | 1. Interactive talk by Dr. Mayur Chikkara "Beti Bachao and Beti Padhao."<br>2. Talk by Dr. Dharmveer Dahiya on "Swachh Bharath Abhiyan and Traffic Rules."  | To create Awareness and Confidence.   |
| 6. | January 6, 2022 | *Interactive talk by Dr. Sudhir Garg on "Style of Swami Vivekananda ji."<br>*Rangoli Making, Poster Making, Slogan Writing, Mehndi and Painting Competitions were organized and announcement of Best Athlete, Best Speaker and Best Entertainer | To Build Confidence among Volunteers. |
| 7. | January 7, 2022 | Valedictory Ceremony of the Camp with Nukkad Natak, Songs, and Group Dance.   |                                       |

*Praveen*



*Ankita*  
*Ankita*



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Students take up "Clean Campus Drive"



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**2022-23**



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**Sonipat-131001**

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Dated:-19/05/2022

## Notice

NSS Unit (I & II) in association with Eco-Club, and Outreach Programme will organise “Tree Plantation” under Harit Haryana Campaign in collaboration with HINT Club Foundation on 23/05/2022. It is mandatory for all the volunteers to attend it.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I and II**



*Principal*  
Principal  
C.R.A COLLEGE  
SONIPAT  
Principal

1. *Walya*  
2. *Arshi*  
*Pinki prajapati*  
*S* *V* *J* *J*





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## Report of Tree Plantation in collaboration with HINT Club Foundation

On 23/05/2022, NSS Unit (I and II) in collaboration with Eco-Club successfully completed the event of **“Tree Plantation”** in our college campus. Trees are the foremost source for producing the oxygen in environment, they help to reduce the level of Carbon dioxide.



Tree Plantations done by PO's



*[Signature]*  
Principal  
C.R.A COLLEGE  
SONEPAT

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

1. *[Signature]*  
2. *[Signature]*



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Dated: 22/07/2022

## Notice

This is for information to all the concerned that NSS Units (I and II) in collaboration with Eco-Club, and Outreach Programme will organise "Tree Plantation" event on 27/07/2022. Presence is mandatory for all the NSS Volunteers.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I and II**



Principal  
C.R.A COLLEGE  
SONIPAT  
**Principal**

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## Report on “Tree Plantation”

On 27/07/2022, the event of “Tree Plantation” in collaboration with Ecoclub, outreach under the National Service Scheme was successfully completed in our college campus. Trees are the source for producing the oxygen in environment; they help to reduce the level of Carbon dioxide. Unit-II Programmer Officer Dr. Manita orients the volunteers by notifying the importance of tree plantation for them as well as society.



Tree Plantation was done by Principal Dr. Narender Singh, P.O.'s Dr.Usha Dahiya and Dr.Manita

National Service Scheme  
C.R.A. College Sonipat



Principal  
C.R.A. COLLEGE  
SONIPAT

1. Dahiya
2. Manita





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*Dated: 15/02/23*

## Notice

This is for information to all the concerned that NSS Unit (I & II) in collaboration with Outreach Programme will organise **Seven Day Special Camp** from 21.02.2023 to 27.02.2023. Presence is mandatory for all the NSS volunteers. Volunteers are hereby directed to report in the college campus at 09:00 am. Certificate will be given to the volunteers, who will participate in the camp. Volunteers must carry the following items with them:

1. Beddings and blanket
2. Toiletry Kit
3. Sports Shoes
4. NSS Cap

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

**Programmer Officer**

**N.S.S. Unit I and II**

1. *[Signature]*
2. *[Signature]*



*[Signature]*  
Principal  
C.R.A COLLEGE  
SONEPAT

**Principal**





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**Report of Special Seven Days Camp organised by NSS  
(UNIT-I & II) in Badhana Village held on 21.02.23 to 27.**

**02.23**

Seven Day Special Camp was organised at Govt. Sr. Sec. School, Bhadana from 21.02.2023 to 27.02.2023. The Camp was inaugurated by our Principal Dr. Narender Singh. During the camp, volunteers actively participated in social, physical, cultural and sports activities. Apart from various competitions, and activities the routine of the volunteers was watering the plants, mending of flower-beds and cleaning of their surroundings. Kamal and Pardeep were declared as the Best Volunteers of their respective units. Mayank was awarded as the Best Speaker of the camp.

**Day-1:** Camp was formally inaugurated by the Chief Guest Dr. Narender Singh, Principal of our college. NSS Programme Officer, Dr. Usha Dahiya and Dr. Manita welcomed the Chief Guest. The inaugural session started with the lighting of lamp and saraswati vandana. Thereafter, Dr. Usha Dahiya gave a presentation over **“Preventive Measures of Omicron”**.

Volunteers aware the villagers about the Omicron’s variant. Variant has raised significant concerns globally due to its rapid spread and mutations in the SARS-CoV-2 virus. To increase awareness among the villagers, it is crucial to stay them informed about the latest developments from reliable sources such as health organizations and government updates. Implementation of preventive measures like vaccination, wearing masks, practicing good hand hygiene, and maintaining social distancing on the only ways to prevent from this diseases. They were

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

*N. Singh*  
Principal  
C.R.A COLLEGE  
SONIPAT

1. *Usha Dahiya*  
2. *Manita*



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informed that Vigilance and prompt adherence to health guidelines are essential to curb the potential impact of the Omicron variant. As the situation is challenging, collective efforts in adhering to safety protocols can contribute to mitigate the spread and ensuring public health.

**Day-2:** Volunteers assembled in the campus and the report of the works carried out during the previous day was discussed. A Lecture was delivered by Chief Guest Mr. Vikram Tushir, Assistant Professor, Department of Political Science on the topic “**Biography of Mohandas K. Gandhi**”. After this informative lecture, the volunteers continued their contribution in the cleanliness of the school surrounding areas and motivated the villagers to adopt procedure of cleanliness.

**Day-3:** Third day of the camp started with the routine activities of the morning session. Thereafter, the volunteers collected garbage dumped around the school. Dr. Sangeeta Mann was invited as a chief guest from Shaheed Dalbir Singh Govt. College, Kharkhoda. Dr. Usha Dahiya and Dr. Manita gave her a flower pot as a token of gift. She delivered an informative and pragmatic lecture on the maintenance of personal hygiene as well as the need of personal health monitoring

**Day-4:** On the Fourth day of the camp, volunteers witnessed various programmes like in which the villagers participated eagerly in cycle racing, painting, and declamation. During the afternoon session, volunteers cleaned surrounding of the school campus and participated in cultural activity during the night session.

**Day-5:** Morning session of fifth day of the camp started with cultural and sports activities. Sanju got first position in 100 meter race. Komal got second position. Priyanka got third position.

**Day-6:** On the sixth day of the camp, the students sanitized the school. They also participated in various cultural activities. Dr. Urmil Hooda, Assistant Professor of

*Principal*  
Principal  
C.R.A. COLLEGE  
SONIPAT

Programme Officer  
National Service Scheme  
G.R.A. College Sonipat

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English was invited as a special guest from our college. She delivered an informative lecture on the importance of education.

**Day-7:** On the last day of the camp, volunteers taught the villagers about the skills of making hair bands and purses. The aim was to sustain the cultural and regional folk out entrepreneurship among students as well as villagers in line with the main theme of the NSS camp i.e. **“Educated Youth and Self Reliant India”**. Dr. Ranbir Singh Gulia, ex MDU Co-ordinator was invited as the chief guest. He developed the lecture on the importance of NSS activities in upholding the age old tendency maintenance of cultural heritage.

National Service Scheme  
C.R.A College Sonipat

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Principal  
C.R.A COLLEGE  
SONIPAT

1. *[Handwritten signature]*  
2. *[Handwritten signature]*





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## हवन यज्ञ के साथ सात दिवसीय एनएसएस कैंप का किया शुभारंभ

सोनीपत/एक्शन इंडिया ब्यूरो शहर के प्रतिष्ठित शिक्षण संस्थान छोटू राम आर्य महाविद्यालय में नव वर्ष की शुरुआत के साथ ही हवन यज्ञ के शुभ मुहूर्त के साथ सामाजिक कल्याण के लिए एनएसएस शिविर का शुभारंभ किया गया। एनएसएस टुकड़ियों को दो इकाइयों में बांटा गया प्रथम इकाई की एनएसएस कार्यक्रम निरीक्षक पदाधिकारी डॉ. उषा दहिया व इकाई दो की कार्यक्रम निरीक्षक पदाधिकारी डॉ. मनीता मैडम को कार्यभार दिया गया है। महाविद्यालय के प्राचार्य डॉक्टर नरेंद्र सिंह जी व टीकाराम एजुकेशन सोसाइटी के



वरिष्ठ कार्यकारिणी सदस्य श्री रामचंद्र जी शास्त्री ने एनएसएस वॉलंटियर्स को प्रेरित करते हुए सात दिवसीय कार्यक्रम की शुरुआत की ताकि वह जिज्ञासु प्रवृत्ति के साथ सामाजिक कल्याण की प्रवृत्तियों को

अमलीजामा पहना सके। आज प्रथम दिवस के दौरान एनएसएस वॉलंटियर्स ने कॉलेज प्रांगण से लेकर आसपास के क्षेत्र के लोगों को 'ओमीकोरोन' से बचाव रखने के लिए प्रेरित किया।

**Inauguration of Seven Days Camp in the presence of Senior Executive Member of T.R.E.S Pt. Ramchander Shastri, Principle Dr. Narender Singh, PO Dr. Usha Dahiya and Dr. Manita**

*Narender Singh*  
Principal  
C.R.A. COLLEGE  
SONIPAT  
Programme Officer  
National Service Scheme  
C.R.A. College Sonapat  
*Usha Dahiya*  
*Manita*







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Cleanliness done by the NSS volunteers

Programme Officer  
National Service Scheme  
C.R.A. College Sonipat

Programme Officer  
National Service Scheme  
C.R.A. College Sonipat

1. *[Signature]*
2. *[Signature]*





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NSS volunteers with P.O. Dr. Manita



*Dr. Manita*  
Principal  
C.R.A. COLLEGE  
SONIPAT

Programme Officer  
National Service Scheme  
C.R.A. College, Sonipat

1. *[Signature]*
2. *[Signature]*



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dated: 01/03/23

### Notice

It is hereby to inform that NSS Unit (I & II) will organise **Personality Day** on 05.03.2023. Presence is mandatory for all the NSS Volunteers. Report in the college sharply at 9:00 am.

Programme Officer  
National Service Scheme  
C.R.A College Sonipat



Principal  
C.R.A COLLEGE  
SONEPAT

**Programmer Officer**

**N.S.S. Unit I and II**

1.   
2.    
  





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Phone: 0130-2242925

## Report on Personality Day

NSS Unit (I and II) organised “**Personality Day**” on 5<sup>th</sup> March 2023. Program Officers Dr. Usha Dahiya and Dr. Manita started the programme oath taking ceremony of the volunteers. As the third major component of education, the NSS is a part of our academic, social, and personal lives. It enables students to actively off time and talents to the betterment of society and country, thereby assisting in the development of their personalities. Personality Day is a celebration that acknowledges the uniqueness and individuality of each person. It serves as a reminder that diversity in personalities is what makes our world rich and vibrant. On this day, people come together to appreciate and embrace the diverse qualities that define us as individuals. It's an opportunity to reflect on the importance of self-awareness and acceptance, fostering an environment where everyone feels valued for who they are. Personality Day encourages us to celebrate the quirks, strengths, and differences that collectively contribute to the tapestry of humanity. It's a day to promote understanding, respect, and unity, emphasizing that our unique personalities should be embraced as assets that enrich our shared human experience.



*Manita*  
Principal  
C.R.A. COLLEGE  
SONEPAT

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

*Usha Dahiya*  
Dr. Manita





Established in 1951

**CHHOTU RAM ARYA COLLEGE**

**Sonipat-131001**

**NATIONAL SERVICE SCHEME (NSS)**

**UNIT-I & II**



Website: [www.cracollegesonepat.org](http://www.cracollegesonepat.org)

Email: [crasonepat@gmail.com](mailto:crasonepat@gmail.com)

Phone: 0130-2242925



Students dressed up on Personality Day



*Principal*  
Principal  
C R A COLLEGE  
SONEPAT

Programme Officer  
National Service Scheme  
C.R.A College Sonipat

1. *Dulya*  
2. *Wah*



Established in 1951

# CHHOTU RAM ARYA COLLEGE

## Sonipat-131001

### NATIONAL SERVICE SCHEME (NSS)

#### UNIT-I & II



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Examine Officer  
National Service Scheme  
A. College Sonipat

Students dressed up on Personality Day



*Principal*  
CHHOTU RAM ARYA COLLEGE  
SONIPAT  
Principal  
i. *Dubey*  
@



**2. Activities related to  
Tree Plantation**

**3. Notice and Display for  
water and electricity  
Conservation**



1) Wide Publicity of,

A. Anti-Ragging

## I. College Website



**CHHOTU RAM ARYA  
COLLEGE, SONEPAT  
(AFFILIATED TO  
MAHARSHI DAYANAND  
UNIVERSITY, ROHTAK)**

HOME ABOUT US ADMISSION COURSES

### Anti-Ragging

Anti-Ragging Cell

Ragging means display of noisy, disorderly conduct, doing any act which causes or is likely to cause physical or psychological harm or raise apprehension or fear or shame or embarrassment to a student whether he/she is a junior or fellow class mate and includes:

- Teasing, abusing of, playing practical jokes on, or causing hurt to, such student or,
- Asking the student to do any act or perform something which such student will not, in the ordinary course do, willingly.

Ragging is totally prohibited. If anyone indulges in ragging, he/she will be handed over to the police and the law will take its course. Students are therefore, requested to refrain from indulging in any kind of ragging.

#### ANTI-RAGGING COMMITTEE

Dr. Anu Rathee (Convener)  
Dr. Sadhna Tyagi  
Dr. Vijay Kiran

#### ANTI-RAGGING SQUAD

Dr. Harindra Dahiya (Vice-Principal & HOD, Dept. of Physics)  
Dr. Naresh Rathee (HOD, Dept. of English)

<https://www.cracollegesonepat.org/AntiRagging.asp>



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UNIVERSITY, ROHTAK)

HOME ABOUT US ADMISSION ▾ COURSES ▾

## Sensitization and Anti-Sexual Harassment Cell

As a government aided educational institute CRA College strictly follows a zero tolerance policy

with respect to harassment and gender based discrimination on the campus. CRA College is fully committed to the protection and promotion of gender equity in its academic and administrative system. In collaboration with Women cell, YRC/RR and NSS sensitization of gender equity is embedded in the academic, curricular and co-curricular activities of institution. Our important measures and facilities to beat this target include:

1. The central orientation programme focuses on gender sensitization sessions in the beginning of academic session.
2. Interaction sessions between senior and junior students.
3. Participation of female teaching and non-teaching staff members in all important policy making and administrative committees.
4. Internal complaints committee to receive and process complaints on sexual harassment from female students and teaching and non-teaching staff members, and for their redressal.
5. Facility for online filling of sexual harassment complaints with complete assurance that the identity of the complainant will be protected.
6. Film shows and Nukkad Natak organized by students with faculty support, to engage with questions of gender identity, emancipation and empowerment.
7. The institution has installed CCTV cameras inside the premises of the college for

and for their redressal.

5. Facility for online filling of sexual harassment complaints with complete assurance that the identity of the complainant will be protected.
6. Film shows and Nukkad Natak organized by students with faculty support, to engage with questions of gender identity, emancipation and empowerment.
7. The institution has installed CCTV cameras inside the premises of the college for security, especially for girls and women.
8. Common rooms have been allotted to girl students for personal purposes.
9. Regular workshops and short term training programmes conducted for girl students, teaching and non-teaching staff members to promote gender equality and empowerment throughout the year.
10. The women cell's outreach and extension activities play important role to target empowerment of adolescent girls and marginalized women in and outside of the campus.
11. As per section 377 of Indian penal code, article 17, 18, 19 and 21 inclusion and emancipation of third gender in the main stream society.
12. Promotion of presentation and publication of research papers targeting gender studies.
13. Selection of gender champions from PG students on the bases of their awareness regarding gender issues.

<https://www.cracollegesonepat.org/GenderSensitization.asp>

## II. HBOI

### Hand Book of Information

2023-2024

CHHOTU RAM ARYA COLLEGE, SONIPAT-131001

A Co-educational Institute

(Affiliated to Maharshi Dayanand University, Rohtak)

Phone No. 0130-2242925

Email: [crasonepat@gmail.com](mailto:crasonepat@gmail.com)

Website: [cracollegesonepat.org](http://cracollegesonepat.org)



Internal Assessment system of 10% marks (5% on the basis of House Examination and 5% on the basis of attendance) in U.G. Classes has been introduced w.e.f. the session 2004-2005 and of 20% in P.G. classes w.e.f. the session 2007-2008. The weightage of internal assessment will be as under:

| Attendance | Marks |
|------------|-------|
| Below 75%  | 0     |
| 76% - 80%  | 4     |
| Above 80%  | 5     |

The internal assessment is allowed in theory papers only.

### Attendance

The semester examination shall be open to a regular student who:

1. Bears good character
2. He has attended not less than 65% of the classes and 75% of practical.

### General Rules Governing Students Conduct

1. Ragging is strictly prohibited. Any violation of this rule may lead to expulsion from the college besides fine.
2. Mobiles are not allowed inside the college building. Any students found with mobile shall be fined Rs. 100/- and Mobile shall be confiscated.
3. Smoking and playing on cards on the college campus are not allowed. Students violating this rule shall be severely punished.
4. Classes will be held according to the declared Time-Table. The principal is authorized to make changes in it as per requirement anytime. Students commuting by trains or buses should bear in mind that the college Time-Table need to be attuned to Railway or Bus Timings.
5. Walking or talking in corridors during class-time will invite punishment.
6. Proxy at the time of Roll-Call is an offence and is punishable.
7. The students must reach their respective class rooms as soon as the bell sounds. After Teacher has closed the register, students will not be marked present.
8. Calling any student from class with getting permission of the teacher are liable to fined heavily.
9. Students leaving the class rooms without the permission of the teacher are liable to be fined heavily.
10. It is the duty of the student to get information of his/her attendance at the end of a session.  
No complaint will be entertained at the end of the year in this regard. In case of doubt regarding calculation of attendance the student should immediately approach the concerned teacher.



# II. Code of Ethics

## CHHOTU RAM ARYA COLLEGE, SONIPAT

### STUDENTS' HANDBOOK ON CODE OF ETHICS AND CONDUCT ALONG WITH STANDARD PROCEDURES

#### 1. PREAMBLE

This Handbook indicates the standard procedures and practices of the Chhotu Ram Arya College, Sonapat (hereinafter referred to as the 'College') for all students enrolling with the college for pursuing varied courses. All students must know that it is incumbent upon them to abide by this Code of Ethics and Conduct (hereinafter referred to as the 'Code') and the rights, responsibilities including the restrictions flowing from it.

That the college's endeavour by means of enforcing this Code is to pioneer and administer a student discipline process that is egalitarian, conscientious, effectual and expeditious; and providing a system which promotes student growth through individual and collective responsibility.

All Students are requested to be well conversant with this Code, which can be also reviewed on the official website of the college

#### 2. JURISDICTION

2.1 The college shall have the jurisdiction over the conduct of the students associated /enrolled with the college and to take cognisance of all acts of misconduct including incidents of ragging or otherwise which are taking place on the college campus or in connection with the college related activities and functions.

2.2 College may also exercise jurisdiction over conduct which occurs off-campus violating the ideal student conduct and discipline as laid down in this Policy and other regulations, as if the conduct has occurred on campus which shall include

- Any violations of the Sexual Harassment Policy of the college against other students of the college.
- Physical assault, threats of violence, or conduct that threatens the health or safety of any person including other students of the college;
- Possession or use of weapons, explosives, or destructive devices off-campus
- Manufacture, sale, or distribution of prohibited drugs, alcohol etc.
- Conduct which has a negative impact or constitutes a nuisance to members of the surrounding off-campus community.

The College, while determining whether or not to exercise such off-campus jurisdiction in situations enumerated hereinabove, the college shall consider the

seriousness of the alleged offense, the risk of harm involved, whether the victim(s) are members of the campus community and/or whether the off campus conduct is part of a series of actions, which occurred both on, and off-campus.

#### 3. Ethics and Conduct

3.1 This Code shall apply to all kinds of conduct of students that occurs on the college premises including in University sponsored activities, functions hosted by other recognized student organizations and any off-campus conduct that has or may have serious consequences or adverse impact on the college's interests or reputation.

3.2 At the time of admission, each student must sign a statement accepting this Code and by giving an undertaking that

- he/she shall be regular and must complete his/her studies in the college.
- In the event, a student is forced to discontinue studies for any legitimate reason, such a student may be relieved from the college subject to written consent of the Principal.
- As a result of such relieving, the student shall be required to clear pending hostel / mess dues and if a student had joined the college on a scholarship, the said grant shall be revoked.

3.3. College believes in promoting a safe and efficient climate by enforcing behavioural standards. All students must uphold academic integrity, respect all persons and their rights and property and safety of others; etc.

3.4 All students must abstain from indulging in any and all forms of misconduct including partaking in any activity off-campus which can affect the college's interests and reputation substantially.

#### The various forms of misconduct include:

- Any act of discrimination (physical or verbal conduct) based on an individual's gender, caste, race, religion or religious beliefs, colour, region, language, disability, or sexual orientation, marital or family status, physical or mental disability, gender identity, etc.
- Intentionally damaging or destroying college property or property of other students and/or faculty members
- Any disruptive activity in a class room or in an event sponsored by the college

3.8 Unable to produce the identity card, issued by the college, or refusing to produce it on demand by campus security guards

3.9 Participating in activities including  
3.9.1 Organizing meetings and processions without permission from the college.

3.9.2 Accepting membership of religious or terrorist groups banned by the college/Government of India

3.9.3 Unauthorized possession, carrying or use of any weapon, ammunition, explosives, or potential weapons, fireworks, contrary to law or policy.

3.9.4 Unauthorized possession or use of harmful chemicals and banned drugs

3.9.5 Smoking on the campus of the college

3.9.6 Possessing, Consuming, distributing, selling of alcohol in the college and/or throwing empty bottles on the campus of the college

3.9.7 Parking a vehicle in a no parking zone or in area earmarked for parking other type of vehicles

3.9.8 Rash driving on the campus that may cause any inconvenience to others

3.9.9 Not disclosing a pre-existing health condition, either physical or psychological, to the Principal which may cause hindrance to the academic progress.

3.9.10 Theft or unauthorized access to others resources

3.9.11 Misbehaviour at the time of student body elections or during any activity of the college.

3.9.12 Engaging in disorderly, lewd, or indecent conduct, including, but not limited to, creating unreasonable noise; pushing and shoving; inciting or participating in a riot or group disruption at the college.

3.10 Students are expected not to interact, on behalf of the college, with media representatives or invite media persons on to the campus without the permission of the college authorities.

3.11 Students are not permitted to either audio or video record lectures in class rooms or actions of other students, faculty, or staff without prior permission.

3.12 Students are not permitted to provide audio and video clippings of any activity on the campus to media without prior permission.

3.13 Students are expected to use the social media carefully and responsibly. They cannot post derogatory comments about other individuals from the college on the social media or indulging in any such related activities having grave ramifications on the reputation of the college.

3.14 Theft or abuse of the college computers and other electronic resources such as computer and electronic communications facilities, systems, and services which includes unauthorized entry, use, tamper, etc. of college property or facilities, private residences of staff/professors etc. offices, classrooms, computers networks, and other restricted facilities and interference with the work of others is punishable.

3.15 Damage to, or destruction of, any property of the college, or any property of others on the college premises.

3.16 Making a video/audio recording, taking photographs, or streaming audio/video of any person in a location where the person has a reasonable expectation of privacy, without that person's knowledge and express consent.

3.17 Indulging in any form of Harassment which is defined as a conduct that is severe and objectively, a conduct that is motivated on the basis of a person's race, colour, national or ethnic origin, citizenship, sex, religion, age, sexual orientation, gender, gender identity, marital status, ancestry, physical or mental disability, medical condition,

4 If there is a case against a student for a possible breach of code of conduct, then a committee will be formed to recommend a suitable disciplinary action which shall inquire into the alleged violation and accordingly suggest the action to be taken against the said student. The committee may meet with the student to ascertain the misconduct and suggest one or more of the following disciplinary actions based on the nature of misconduct.

4.1 WARNING- Indicating that the action of the said delinquent student was in violation of the Code and any further acts of misconduct shall result in severe disciplinary action.

4.2 RESTRICTIONS -Reprimanding and Restricting access to various facilities on the campus for a specified period of time.

4.3 COMMUNITY SERVICE - For a specified period of time to be extended if need be. However, any future misconduct along with failure to comply with any conditions imposed may lead to severe disciplinary action, including suspension or expulsion.

4.4 EXPULSION - Expulsion of a student from the college permanently. Indicating prohibition from entering the college premises or participating in any student related activities or campus residences etc.

4.5 MONETARY PENALTY- May also include suspension or forfeiture of scholarship/fellowship for a specific time period.



4.6. **SUSPENSION-** A student may be suspended for a specified period of time which will entail prohibition on participating in student related activities, classes, programs etc. Additionally, the student will be forbidden to use various college facilities unless permission is obtained from the Competent Authority. Suspension, may also follow by possible dismissal, along with the following additional penalties.

4.7. Ineligibility to reapply for admission to the college for a period of three years, and

4.8. Withholding the grade card or certificate for the courses studied or work carried out

5. **APPEAL:** If the delinquent student is aggrieved by the imposition of any of the aforementioned penalties, he/she may appeal to the Principal. The Principal may decide on one of the following:

5.1. Accept the recommendation of the committee and impose the punishment as suggested by the Committee or modify and impose any of the punishments as stipulated in this Code which is commensurate with the gravity of the proved misconduct, Or

5.2. Refer the case back to the committee for reconsideration.

In any case the Principal's decision is final and binding in all the cases where there is a possible misconduct by a student.

## 6. Academic Integrity

As a premier institution for high quality education, the college values academic integrity and is committed to fostering an intellectual and ethical environment based on the principles of academic integrity. Academic Integrity encompasses honesty and responsibility and awareness relating to ethical standards for imparting high standard of education. The college believes that in all academic work, the ideas and contributions of others must be appropriately acknowledged. Academic integrity is essential for the success of the college and its academic missions, and hence, violations of academic integrity constitutes a serious offence.

### 6.1 Scope and Purpose

A. This Policy on academic integrity, which forms an integral part of the Code, applies to all students at the college and are required to adhere to the said policy. The purpose of the Policy is twofold:

- To clarify the principles of academic integrity, and

- To provide examples of dishonest conduct and violations of academic integrity.

**NOTE:** These examples are only illustrative, NOT exhaustive.

B. Failure to uphold these principles of academic integrity threatens both the reputation of the college and the value of the degrees awarded to its students. Every member of the college community therefore bears a responsibility for ensuring that the highest standards of academic integrity are upheld.

C. The principles of academic integrity require that a student,

- properly acknowledges and cites use of the ideas, results, material or words of others.
- properly acknowledges all contributors to a given piece of work.
- makes sure that all work submitted as his or her own in a course or other academic activity is produced without the aid of impermissible materials or impermissible collaboration.
- obtains all data or results by ethical means and reports them accurately without suppressing any results inconsistent with his or her interpretation or conclusions.
- treats all other students in an ethical manner, respecting their integrity and right to pursue their educational goals without interference. This requires that a student neither facilitates academic dishonesty by others nor obstructs their academic progress.

6.2 Violations of this policy include, but are not limited to:

(i) Plagiarism means the use of material, ideas, figures, code or data as one's own, without appropriately acknowledging the original source. This may involve submission of material, verbatim or paraphrased, that is authored by another person or published earlier by oneself.

Examples of plagiarism include:

- Reproducing, in whole or part, text/sentences from a report, book, thesis, publication or the internet.
- Reproducing one's own previously published data, illustrations, figures, images, or someone else's data, etc.
- Taking material from class notes or incorporating material from the internet graphs, drawings, photographs, diagrams, tables, spreadsheets, computer programs, or other non-textual material from other sources into one's class reports, presentations, manuscripts, research papers or thesis without proper attribution.
- Self plagiarism which constitutes copying verbatim from one's own earlier published work in a journal or conference proceedings without appropriate citations.
- Submitting a purchased or downloaded term paper or other materials to satisfy a course requirement.

f) Paraphrasing or changing an author's words or style without citation.

### (a) Cheating

Cheating includes, but is not limited to:

(i) Copying during examinations, and copying of homework assignments, term papers, theses or manuscripts.

(ii) Allowing or facilitating copying, or writing a report or taking examination for someone else.

(iii) Using unauthorized material, copying, collaborating when not authorized, and purchasing or borrowing papers or material from various sources.

(iv) Fabricating (making up) or falsifying (manipulating) data and reporting them in thesis and publications.

(v) Creating sources, or citations that do not exist.

(vi) Altering previously evaluated and re-submitting the work for re-evaluation.

(vii) Signing another student's name on an assignment, report, research paper, thesis or attendance sheet.

(viii) **Conflict of Interest:** A clash of personal or private interests with professional activities can lead to a potential conflict of interest, in diverse activities such as teaching, research, publications, working on committees, research funding and consultancy. It is necessary to protect actual professional independence, objectivity and commitment, and also to avoid an appearance of any impropriety arising from conflicts of interest.

Conflict of interest is not restricted to personal financial gain; it extends to a large gamut of professional academic activities including peer reviewing, serving on various committees, which may, for example, oversee funding or give recognition, as well as influencing public policy.

To promote transparency and enhance credibility, potential conflicts of interests must be disclosed in writing to appropriate authorities, so that a considered decision can be made on a case-by-case basis. Some additional information is available also in the section below dealing with resources.

4.3 Guidelines for academic conduct are provided below to guard against negligence as well as deliberate dishonesty:

प्रयोगकर्ता को लेखन (लिखित) कार्य प्रस्तुत करने के दौरान या लेखन के दौरान किसी भी रूप में धोखेपूर्ण तरीके से कृत्रिम रूप से प्राप्त जानकारी को प्रस्तुत करना शामिल है। प्रयोगकर्ता को लेखन के दौरान किसी भी रूप में धोखेपूर्ण तरीके से कृत्रिम रूप से प्राप्त जानकारी को प्रस्तुत करना शामिल है। प्रयोगकर्ता को लेखन के दौरान किसी भी रूप में धोखेपूर्ण तरीके से कृत्रिम रूप से प्राप्त जानकारी को प्रस्तुत करना शामिल है। प्रयोगकर्ता को लेखन के दौरान किसी भी रूप में धोखेपूर्ण तरीके से कृत्रिम रूप से प्राप्त जानकारी को प्रस्तुत करना शामिल है।

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- c) Institutional roles: A breach of academic integrity is a serious offence with long lasting consequences for both the individual and the college, and this can lead to various sanctions. In the case of a student the first violation of academic breach will lead to a warning and/or an "F" course grade. A repeat offence, if deemed sufficiently serious, could lead to expulsion. It is recommended that faculty bring any academic violations to the notice of the department Chairperson. Upon receipt of reports of scientific misconduct, the Principal may appoint a committee to investigate the matter and suggest appropriate measures on a case by case basis.
- d) any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any student;

## 7 ANTI-RAGGING

The college has a coherent and an effective anti-ragging policy in place which is based on the 'UGC Regulation on Curbing the Menace of Ragging in Higher Educational Institutions, 2009' (hereinafter referred to as the 'UGC Regulations'). The UGC Regulations have been framed in view of the directions issued by the Hon'ble Supreme Court of India to prevent and prohibit ragging in all Indian Educational Institutions and Colleges. The said UGC Regulations shall apply *mutatis mutandis* to the college and the students are requested kindly to

7.1 Ragging constitutes one or more of the following acts:

- any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness any student;
- indulging in rowdy or undisciplined activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any other student;
- asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such a student;
- any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any student;
- exploiting the services of a student for completing the academic tasks assigned to an individual or a group of students;
- any act of financial extortion or forceful expenditure burden put on a student by other students;
- any act of physical abuse including all variants of it: sexual abuse, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health or person;

- any act or abuse by spoken words, emails, post, public insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to any other student;
- any act that affects the mental health and self-confidence of any other student with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any other student.

## 7.2 ANTI-RAGGING COMMITTEE:

The Anti-Ragging Committee, as constituted by the Principal and headed by students affairs advisors shall examine all complaints of anti-ragging and come out with recommendation based on the nature of the incident.

## 7.3 ANTI-RAGGING SQUAD

To render assistance to students, an Anti-Ragging Squad, which is a smaller body, has also been constituted consisting of various members of the campus community. The said Squad shall keep a vigil on ragging incidents taking place in the community and undertake patrolling functions. Students may note that the Squad is active and alert at all times and are empowered to inspect places of potential ragging, and also make surprise raids in hostels and other hotspots in the college. The Squad can also investigate incidents of ragging and make recommendations to the Anti-Ragging Committee and shall work under the guidance of the Anti-Ragging Committee.

7.4 A student found guilty by the committee will attract one or more of the following punishments, as imposed by the Anti-Ragging Committee:

- Suspension from attending classes and academic privileges.
- Withholding/ withdrawing scholarship/ fellowship and other benefits.
- Debarment from appearing in any test/ examination or other evaluation process.
- Withholding results.
- Debarment from undertaking any collaborative work or attending national or international conferences/symposia/meeting to present his/her research work.
- Suspension/ expulsion from the hostels and mess.
- Cancellation of admission.
- Expulsion from the institution and consequent debarment from admission to any other institution for a specified period.
- In cases where the persons committing or abetting the act of ragging are not

identified, the college shall resort to collective punishment.

- If need be, in view of the intensity of the act of ragging committed, a First imposition of punishment, depending on the facts and circumstances of each incident of ragging and nature and gravity of the incident of ragging. Information Report (FIR) shall be filed by the college with the local police authorities.

The Anti-Ragging Committee of the college shall take appropriate decision, including

7.5 An Appeal against the any of the orders of punishment enumerated hereinabove shall lie to:

- In case of an order of an institution, affiliated to or constituent part, of the college, to the Principal of the college.

## 8 SEXUAL HARASSMENT

The college's Policy on prevention and prohibition of sexual harassment at workplace, 2016 shall apply *mutatis mutandis* to the students of the college which can be accessed and reviewed by the students at <http://www.cracollegesonepat.org/GenderSensitization.asp>. Students should note that sexual misconduct or harassment encompasses a range of conduct, including but not limited to sexual assault, unwanted touching or persistent unwelcome comments, e-mails, or pictures of an insulting or degrading sexual nature, which may constitute harassment, which shall depend of the circumstances of each case.

## 9 STUDENT GRIEVANCE PROCEDURE

Any student of the college aggrieved by any acts of sexual harassment, misconduct or ragging as defined and summarised hereinabove can approach the Student Grievance Redressal cell at the college. Further, any student who is aware of any violations must report the same to the Cell. The Cell shall consist of members as appointed by the Principal. Said grievance must be in writing and should be made within 60 days from the day of the alleged violation. The Cell shall take cognisance of the grievance and inform the Committee formed to enforce this Code or the Internal Complaints Committee, in cases of any sexual harassment complaints.

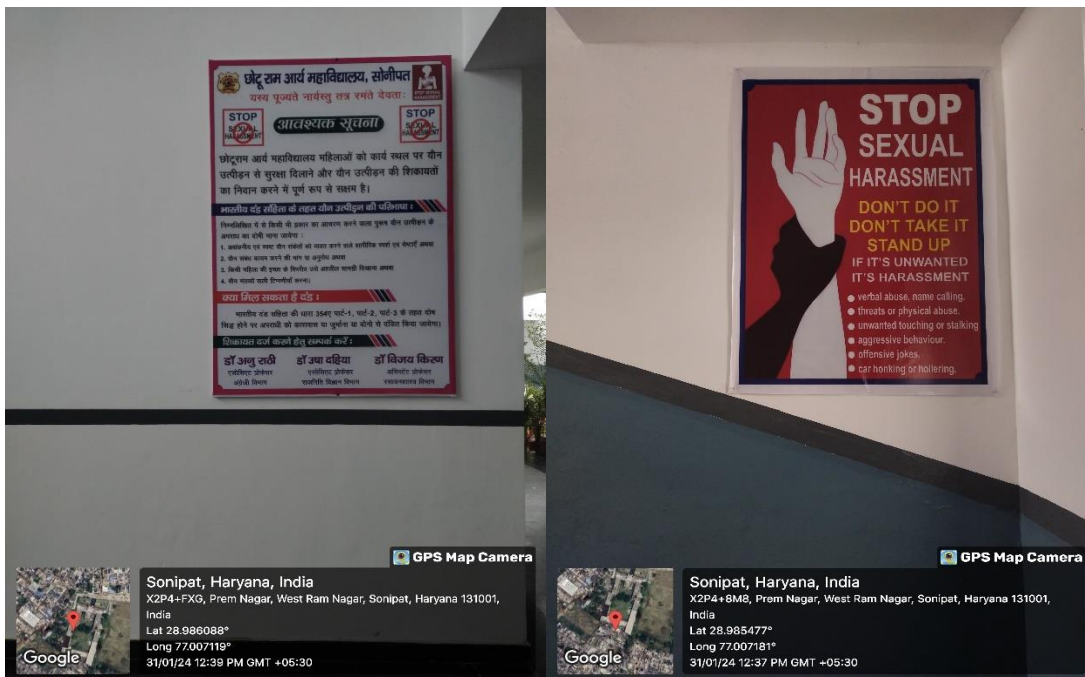
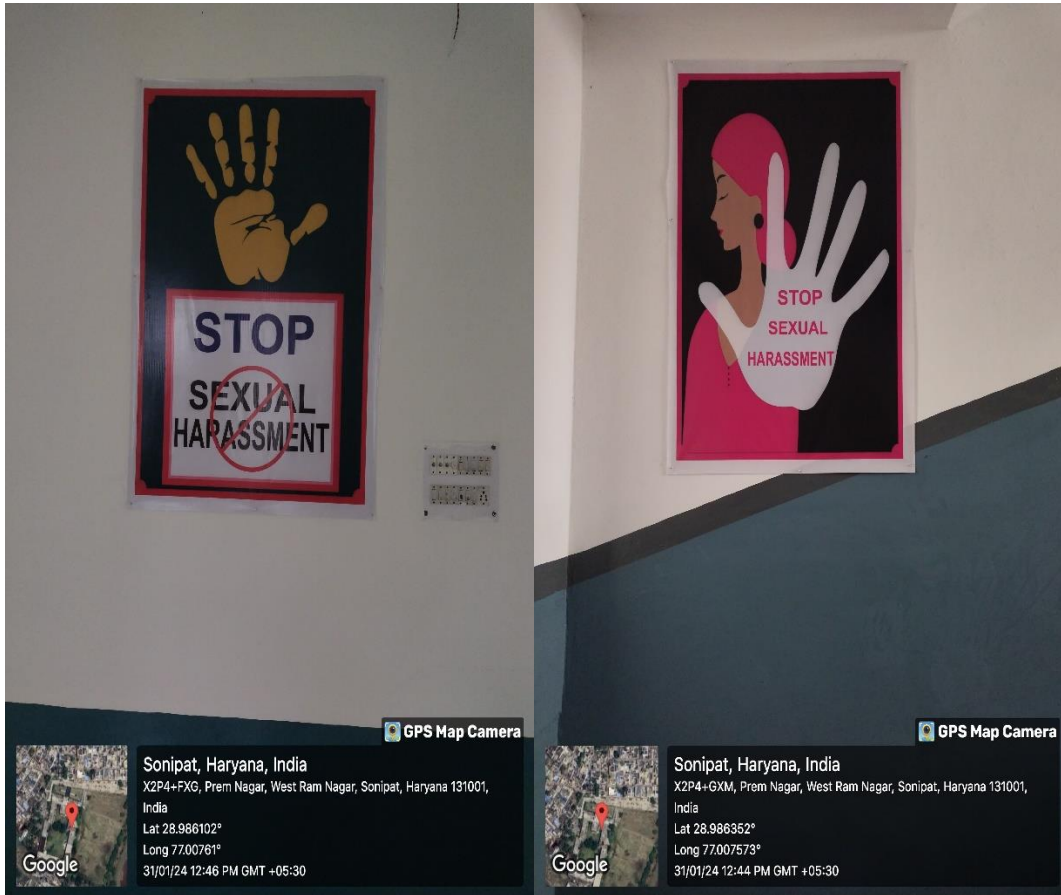
## 10 STUDENT PARTICIPATION IN GOVERNANCE

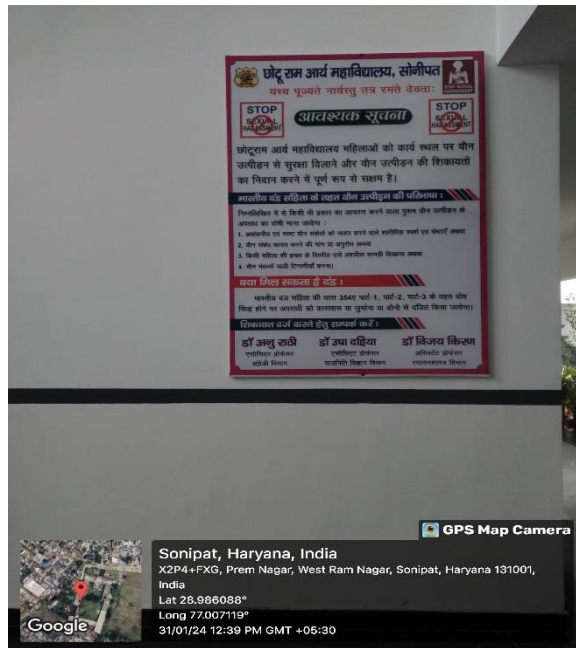
As Students are members of the college campus, they have a substantial interest in the governance of the college. The Code policies and the varied procedures laid down herein intends that the principle of student involvement in governance in both administrative and academic areas is essential and it is pivotal that Students must be, at all junctures, be encouraged to put forth their views and advice, for an informed decision making. Student Participation is encouraged and must be strengthened through the involvement of students in all levels. Therefore, all students who are a part of the college and who are going to be enrolled in the college are advised to uphold the policy and inform the college of any violations and assist individually and collectively to improve the quality and effectiveness of this Code and appended policies.

<https://www.cracollegesonepat.org/download/handbook-2023.pdf>



# IV. Banners inside Campus





## V. Induction/Orientation briefing by Principal





## 5. Energy Audit

# ENERGY AUDIT REPORT



Established in 1951

2017-2018



Chhotu Ram Arya College  
Sonipat- 131001



Established in 1951

## Contents

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8. Energy audit
9. Energy sources
10. Key findings and observations on energy usage
11. Recommendations for better energy efficiency
12. Consolidation of audit findings
13. Post audit phase



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## Preface

An energy audit is a study of a plant or facility to determine how and where energy is used and to identify methods for energy savings. There is now a universal recognition of the fact that new technologies and much greater use of some that already exist provide the most hopeful prospects for the future. The opportunities lie in the use of existing renewable energy technologies, greater efforts at energy efficiency, and the dissemination of these technologies and options.

This report is just one step, a mere mile marker towards our destination of achieving energy efficiency and we would like to emphasize that an energy audit is a continuous process. We have compiled a list of possible actions to conserve and efficiently utilize our scarce resources and identified their savings potential. The next step would be to prioritize their implementation. We look forward with optimism that the institute authorities, staff, and students shall ensure the maximum execution of the recommendations and the success of this work.





Established in 1951

## 1. Audit Participants on behalf of the Institution

| S. No. | NAME             | POSITION/DEPARTMENT  |
|--------|------------------|--|
| 1      | Dr. Vipin Saini  | Assistant Professor/ Electrical Engineering, U.I.E.T., M.D. University Rohtak ( Special Invitee) |
| 2      | Dr. Meena Kumari | Assistant Professor/ Electrical Engineering, U.I.E.T., M.D. University Rohtak ( Special Invitee) |
| 3      | Dr. J.S.Phor     | Associate Professor/Physics<br>Chhotu Ram Arya College, Sonipat                                  |

## 2. Acknowledgment

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

Our special thanks are to:

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

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



Established in 1951

### 3. 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 spirit



Sir Chhotu Ram

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.



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#### 4. AERIAL VIEW AND LOCATION OF CRA COLLEGE

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

The geographical coordinate college is:

Longitude- 77°0'26.78"E

Latitude- 28°59'10.28"N



#### C.R.A Jat College

छोटूराम जाट महाविद्यालय

4.4 ★★★★★ (243)

College · 1 min

Open · Closes 14:00

[Directions](#)

[Start](#)

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## CRA COLLEGE GOOGLE MAP

12:04 ✓ VoLTE 4G+ 81%

Gali Number 2

← cra college sonipat ×

See similar places

Street No. 3  
et No. 2  
Street No. 1

Ravi Dharm Kanta  
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आपका हार्दिक स्वागत करता

**C.R.A Jat College**  
छोटूराम जाट महाविद्यालय  
4.4 ★★★★★ (243)  
College  
Open · Closes 14:00

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## 5. Executive Summary

Energy today has become a key factor in deciding the product cost at the micro level as well as in dictating the inflation and the debt burden at the macro level, Energy cost is a significant factor in economic activity at par with factors of production like capital, land, and labor. The imperatives of an energy shortage situation call for energy conservation measures, which essentially mean using less energy for the same level of activity. Energy Audit attempts to balance the total energy inputs with their use and serves to identify all the energy streams in the systems and quantifies energy usage according to its discrete function. Energy Audit helps in energy cost optimization, pollution control, and safety aspects and suggests the methods to improve the operating & maintenance practices of the system. It is instrumental in coping with the situation of variation in energy cost availability, reliability of energy supply, the decision on appropriate energy mix, and decision on using improved energy conservation equipment's Instrumentation and technology.

Energy Audit is the key to a systematic approach to decision-making in the area of energy management. It attempts to balance the total energy inputs with their use and serves to identify all the energy streams in a facility. It quantifies energy usage according to its discrete functions.

The Energy Audit would give a positive orientation to the energy cost reduction, preventive maintenance, and quality control programs which are vital for production and utility activities. Such an audit program will help to keep the focus on variations that occur in the energy costs, availability and reliability of supply of energy, decide on appropriate energy mix, identify energy conservation technologies, retrofit for energy conservation equipment, etc. The primary objective of an Energy Audit is to determine ways to reduce energy consumption per unit of product output or to lower operating costs. The present report shows the energy audit of CRA College in terms of pre-audit phase, audit phase, and post-audit phase.

The assignment was conducted and the following areas have been covered in the study.

1. Electricity Bill
2. Distribution Network



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3. DG Sets
4. Lights
5. Air Conditioning Load
6. Computer Lab Load
7. Solar Power etc.

## **6. Introduction to energy audit**

In a broad sense, Energy Efficiency means economizing on the use of energy without adversely affecting economic growth and development. It includes improving the efficiency of energy extraction, Transmission, and Distribution and increasing the productivity of energy use.

### **Designated consumers**

Govt. specifies the following criteria for energy Intensive Industries and other establishments. (As per EC Act 2001, Section 14(e)), for Industries Electrical connected load 5000 KW and above Designated Consumers to get energy audit by Accredited energy audit firms

### **Bureau of Energy Efficiency (BEE)**

The Bureau of Energy Efficiency is an agency of the Government of India, under the Ministry of Power created in March 2002 under the provisions of the nation's 2001 Energy Conservation Act. The agency's function is to develop programs that will increase the conservation and efficient use of energy in India

## **7. Energy Audit**

As per the Energy Conservation Act, 2001, Energy Audit is defined as "the verification, monitoring, and analysis of the use of energy including submission of technical report containing recommendations for improving energy efficiency with cost-benefit analysis and an action plan to reduce energy consumption". There are three phases of the Energy Audit

1. Pre-audit phase
2. Audit phase
3. Post-audit phase

The above phase includes the following stages



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**1. Data Collection** - In the preliminary data collection phase, exhaustive data collection was performed using different tools such as observation, surveys communicating with responsible persons, and measurements.

The following steps were taken for data collection:

- ❖ The team went to each department, Library, canteen, etc.
- ❖ Data about the general information was collected by observation and interview.
- ❖ The power consumption of appliances was recorded by taking an average value in some

**2. Data Analysis.** Detailed analysis of data collected includes:

- calculation of energy consumption
- analysis of the latest electricity bill of the campus
- understanding the tariff plan provided by the Uttar Haryana Bijli Vitran Nigam Limited
- Data related to water usage were also analyzed using appropriate methodology.

**3. Recommendation** - Based on the results of data analysis and observations, some steps for reducing power and water consumption were recommended. Proper treatments for waste were also suggested. The use of fossil fuels has to be reduced for the sake of community health. The above target areas particular to the college were evaluated through a questionnaire circulated among the students for data collection. Five categories of questionnaires were distributed. The formats of these are given below.

## 7.1 Pre-audit Phase

### 7.1.1 Survey Form for data collection

- 1) List ways that you use energy in your college. (Electricity, electric stove, kettle, microwave, LPG, firewood, Petrol, diesel, and others).
- 2) Electricity bill amount for the last five years
- 3) Amount paid for LPG cylinders for last year
- 4) Weight of firewood used per month and amount of money spent? Also, mention the amount spent on petrol/diesel others for generators?
- 5) Are there any energy-saving methods employed in your college? If yes, please specify. If not, suggest some.
- 6) How much money does your college spend on energy such as electricity, gas, firewood, etc. in a month? ( Record monthly for the year 2017-18).



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- 7) How many CFL bulbs has your college installed?
- 8) How many LED bulbs are used in your college?
- 9) How many incandescent (tungsten) bulbs has your college installed?
- 10) How many fans are installed in your college?
- 11) How many air conditioners are installed in your college?
- 12) How much electrical equipment including weighing balance is installed in your college?
- 13) How many computers are there in your college?
- 14) How many photocopiers are installed by your college?
- 15) How many cooling apparatuses are installed in your college?
- 16) Energy used by each cooling apparatus per month?
- 17) Energy used by each photocopier per month?
- 18) How many inverters your college installed?
- 19) Energy used by each inverter per month (Kwh)?
- 20) How much electrical equipment is used in different labs of your college?
- 21) How many heaters are used in the canteen of your college?
- 22) No. of street lights in your college?
- 23) No. of TV in your college?
- 24) Do you run "switch off" drills at college?
- 25) Are your computers and other equipment put in power-saving mode?
- 26) Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby mode most of the time? If yes, how many hours?
- 27) What are the energy conservation methods adopted by your college?
- 28) How many boards are displayed for saving energy awareness?
- 29) How much ash is collected after burning firewood per day in the canteen?
- 30) Write a note on the methods/practices/adaptations by which you can reduce the energy use on your college campus in the future.

## 7.2 Audit Phase

In CRA college energy auditing was done with the help of a team teaching staff. The energy audit began with the teams walking through all the different facilities at the college, determining the different types of appliances and utilities (lights, taps, toilets, fridges, etc.) as well





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as measuring the usage per item (Watts indicated on the appliance) and identifying the relevant consumption patterns (such as how often an appliance is used) and general characteristics of certain appliances,

**i. Data collection**

Data collection was done in the sectors such as sources of energy and energy consumption patterns. College records and documents were verified several times to clarify the data received through surveys and discussions.

**ii. Site Tour**

The site inspection was done along with students and staff. Questionnaires were answered during the site tour and relevant documents were collected.

**iii. Review of Documents and Records**

Documents such as electricity bills, registers of electricity, and fuel consumption were collected and reviewed.

**iv. Site Inspection**

The college and its premises were visited and analyzed by the audit-teams several times to gather information. Campus trees were counted and identified. Garden, playgrounds, canteen, library, office rooms, and parking grounds were also visited to collect data. The number and type of vehicles used by the stakeholders were counted and fuel consumption for each vehicle was verified with the user. The number of LPG cylinders used in labs, canteen, and hostel kitchen mess was also counted.

**v. Land analysis of college campus**

**Table 1: Total Campus Area & College Building Spread Area**

|   |                    |
|---|--------------------|
| Total Area of the College                   | 54000 square meter |
| Total Covered Area At Ground                | 3268 square meter  |
| Total Covered Area At 1 <sup>st</sup> Floor | 3268 square meter  |



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|   |                    |
|---|--------------------|
| Total Covered Area At 2 <sup>nd</sup> Floor | 1266 square meter  |
| Total Covered Area                          | 7802 square meter  |
| Plantation Area, Green Lawns, And Grounds   | 37800 square meter |

## 8. Energy Sources :



**Fig: Generator to the capacity of 62.5 KWH installed in the college.**

The transformer of capacity 100 KVA (step down) provided by Uttar Haryana Bijli Vitran Nigam, has been installed on campus for distribution of power to different units.

In case of a power cut, we supply power to fulfill demands with help of a generator which runs on diesel as fuel.



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Generator -1 of 62.5 KVA capacity

The power efficiency of the generator is 80%

## 9. Key Findings and Observations of Energy Usages

The base of the energy audit is that its findings are supported by documents and verifiable information. The audit process seeks, on a sampled basis, to track past actions, activities, events, and procedures to ensure that they are carried out according to systems requirements and in the correct manner. Energy audits form a part of a process. Although they are individual events, the real value of energy audits is the fact that they are carried out, at defined intervals, and their results can illustrate improvement or change over time.

Although audits are carried out using policies, procedures, documented systems, and objectives as a test, there is always an element of subjectivity in an audit. The essence of any energy audit is to find out how well energy management equipment is performing. Each of the three components is crucial in ensuring that the organization's energy performance meets the goals set in its energy policy.

Electricity charges Rs.73358/month

Number of Generators 1(62.5KVA)

Cost of generator fuel - Rs.10000/month

The total cost of the energy app. Rs. 1,00,000/month

Total number of CFL bulbs- 12

Number of LED lights =85+158+35+11+30 = 319

Incandescent bulbs =50

Number of fans =187

Number of Air conditioners =8



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Number of Tube lights =73

Total Electrical Equipment in Lab=12

Number of Computers and laptops =106

Number of Photocopiers = 3

Number of Televisions =5

Number of Photocopy Machine= 03

Number of Printers= 10

Number of Air Conditioners= 16

## **10. Recommendations for Better Energy Efficiency**

- Turn off electrical equipment when not in use.
- Master switches to be installed outside rooms.
- CFLs to be replaced by more efficient LEDs
- Use computers and electronic equipment in power-saving mode

Based on the analysis of the power consumption data, certain steps have been recommended for improving the energy efficiency of the campus. Complete cost analysis of the implementation of recommended measures has been performed wherever necessary. Also, several general measures for energy efficiency have been listed.

**Described below are some important recommendations for better energy efficiency:**

### **1. Housekeeping**

Curtains - Always keep curtains on windows to prevent direct sunlight inside the room to avoid heating of cooled air. This reduces AC load significantly.

### **3. Better Practices for AC**





Established in 1951

The institute has in total 3 window type ACs and 13 split type ACs which make up a very large part of the total energy consumption of the campus. But, in many places, it was found that AC is not used with best-recommended practices. Even simple things, such as insulation, are not taken care of. Window panes were found broken in many places. Also, in certain places, ACs were found to be used without keeping curtains. These poor practices account for an increase in AC load and thus consumption.

Summarized below are some guidelines for the most efficient use of ACs:

- Proper Insulation Good quality insulation must be maintained in the air-conditioned rooms by keeping all doors and windows closed properly to prevent cool air go out and hot air from coming in.
- Operating - The ACs should be switched on 15 minutes before actual use and should be switched off before leaving the room.

#### **4. Replacing electric bulbs with LEDs lamps**

Electric bulbs to be replaced with LED lights.

#### **5. Solar Panels**

College is suggested to install solar panels so that green energy can be generated.

#### **6. Replacement of main transmission cable**

The main transmission cable from the transformer to the college building is faulty and has many loose connections. This cable should be replaced.

#### **7. Purchase of star-rated electric equipment**

It is recommended that the college should purchase 5\* rated electric equipment and inverter A.C. in the future.

### **Calculations for energy efficiency of college to reduce energy consumption**

The dominant light source at most places on the campus is traditional i.e. CFLS and electric bulbs. If these CFLS and bulbs are replaced by LEDs about 5 KW of power can be saved annually.



Established in 1951

### **Cost Analysis of Replacing CFLs with LEDs:-**

Total No. of CFLs on Campus = 12

Average Power of CFL 23W

Average Power of LED - 12w

Power saved per LED = (23-12) W=11W

• Total Power saving by changing CFL  $12 * 11W=132W =0.132KW(\text{per hour})$

### **Cost Analysis of Replacing Electric bulbs with LEDs:-**

Total No. of electric bulbs on Campus = 50

Average Power of electric bulb =100W

Average Power of LED = 12w

The power saved per LED = (100-12) W=88W

• Total Power saving by changing electric bulbs  $50 * 88W=4400W =4.4 KW(\text{per hour})$

### **Cost Analysis of Replacing Tube Lights with LEDs:-**

Total No. of in Tube Lights Campus = 73

Average Power of Tube Lights =40W

Average Power of LED = 12w

Power saved per LED = (40-12) W=28W

• Total Power saving by changing Tube Lights  $73 * 28W=2044W =2.04KW(\text{per hour})$

## **11. Consolidation of Audit Findings**

- The communication process for awareness concerning energy conservation is found adequate. Assessment of electrical load calculation has been done by the college with a special invitee from M.D. University Rohtak. The monthly use of electricity in the college is not very high. Objectives for reducing energy, water, and fuel consumption are sufficient.
- Energy-efficient equipment is being used by replacing the old non-energy efficient fans.
- Regular monitoring of equipment and immediate rectification of any problems is being done.



Established in 1951

## 12. Post audit phase

### Follow-Up and Action Plans

Energy audits form a part of an ongoing process. Innovative energy-saving initiatives have to be designed and implemented every year to make the college environmentally sustainable. Follow-up programs of energy auditing recommendations should be done meticulously before the next audit

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Department of Physics

## 5. Green Audit



# GREEN AUDIT REPORT



(2017-2018)



## Chhotu Ram Arya College

Sonipat- 131001

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## 1. Preface

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. It aims to analyze environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere. Green audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution. Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent. The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO<sub>2</sub> from the environment. The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through carbon footprint reduction measures.

## 2. Audit Participants on behalf of Institution

| S. No. | NAME              | POSITION/DEPARTMENT                                     |
|--------|-------------------|---|
| 1      | Sh. Niranjn Singh | SDO, Horticulture, Maharshi Dayanand University, Rohtak |
| 2      | Dr. J.S. Phor     | Associate Professor of Physics                          |
| 3      | Dr. Seema Kuhad   | Assistant Professor of Zoology                          |

## 3. Objectives

In recent time, the Green Audit of an institution has been becoming a paramount important for self-assessment of the institution which reflects the role of the institution in mitigating the present environmental problems. 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. The main objectives of carrying out Green Audit are:

- To map the Geographical Location of the college
- To document the floral and faunal diversity of the college

- To record the meteorological parameter of Sonipat where college is situated
- To document the ambient environmental condition of weather, air, water and noise of the college
- To document the waste disposal system
- To estimate the Energy requirements of the college
- To report the expenditure on green initiatives during the last five years.

## **4. Acknowledgement**

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

Our special thanks are due to:

- President, 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 Green Audit . We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.



## 5. 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 have been completed with ultra-modern latest techniques.

## 6. Aerial view of College:-

The Chhotu Ram Arya college is spread over a sprawling campus of about 12 acres land on Kakroi road, which is situated in the heart of Sonapat city. The 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.

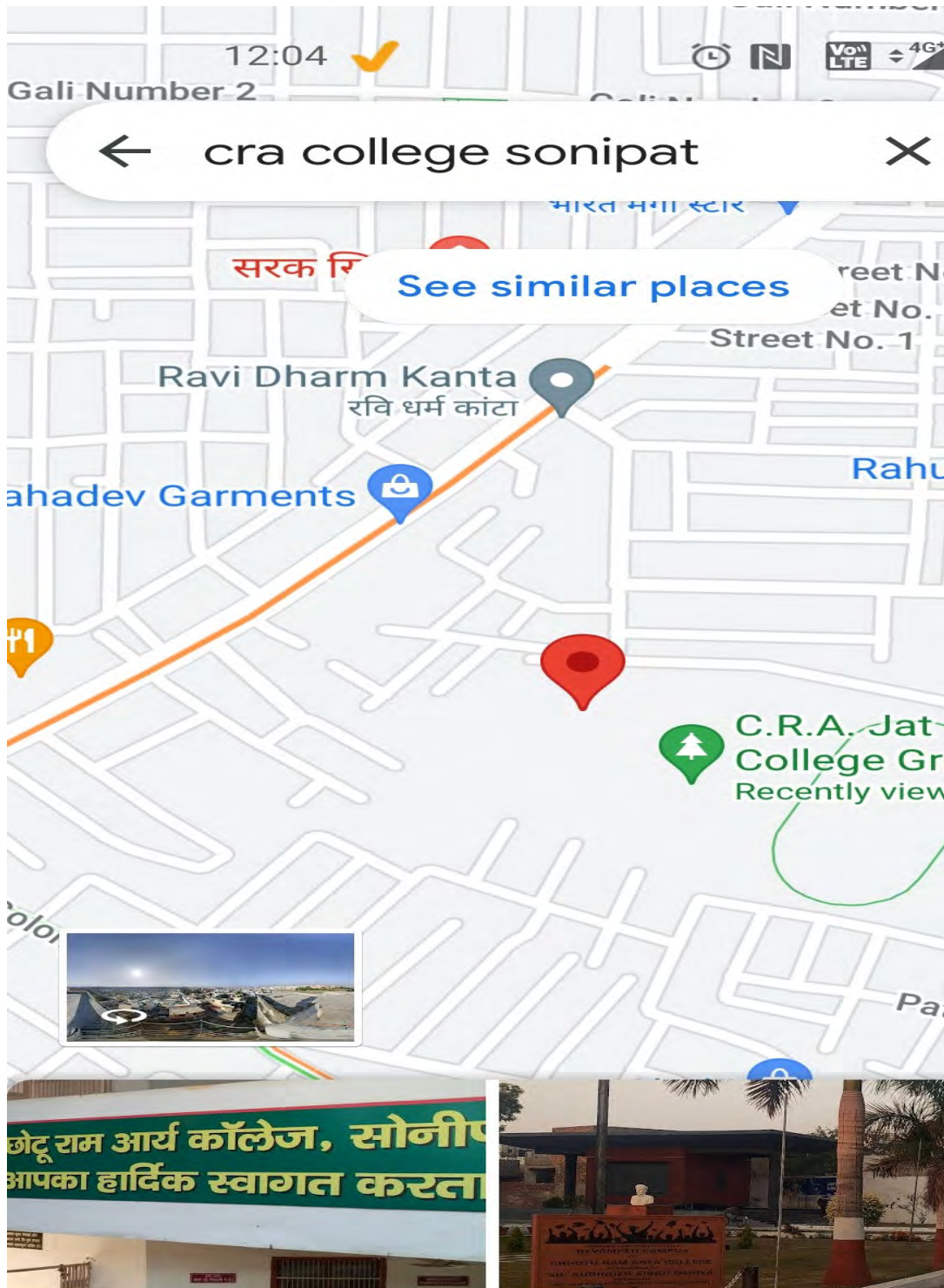
The geographical system coordinates colleges are:

Longitude- 77°0'26.78"E

Latitude- 28°59'10.28"N



## 7. Google map of C.R.A. College





## **8. Methodology**

The purpose of the green audit of Chhotu Ram Arya College is to ensure that the practices followed in the campus are in accordance with the Green policy adopted by the institution. The methodology include: preparation and filling up of questionnaire, physical inspection of the campus, observation and revision of the documentation, interviewing key persons and data analysis, measurements and recommendations. Some data have also been taken from the students' research works carried out by various science departments of the college.

## **9. Audit Objective and Scope:-**

Developing personal and social responsibility among the students for college campus and its environment and thereby make them sensitive to the needs of society and nation so as to adhere vision and mission of the college.

1. Environmental education through systematic environmental management approach.
2. Improving environmental standards.
3. To reduce carbon foot prints.
4. Curriculum enrichment through practical experience.
5. Sustainable use of natural resources in the campus.
6. To reduce the financial burden upon the college by reducing and reusing the resources.
7. To assess the water quality of soil and water.
8. To monitor energy/water conservation.
9. To monitor noise levels.
10. To reduce carbon foot prints.
11. To make and monitor the campus clean and green.
12. To assess the maintenance of Botanical garden.

## **10.Green Auditing and its benefits**

The college has adopted 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 and 100% graduates demonstrating environmental literacy. The goal is to reduce CO<sub>2</sub> emission, energy and water use, while creating atmosphere where students can learn and be health.

- Increasing employee awareness of environmental policies and responsibilities.
- Identifying cost-savings including those resulting from waste minimization.
- Evaluating training programmes 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 in relation to plant modifications, new plans, etc.



## 11. Activities Conducted Related to Green Environment in 2017-2018

| S.No. | Date     | Department/Faculty            | Details of Activity                         |
|-------|----------|-------------------------------|---|
| 1     | 25-07-17 | Dr. Narender Khatri/Principal | Plantation on the occasion of new session   |
| 2.    | 04-09-17 | Zoology Deptt.                | Lecture - Save Earth Save Species           |
| 3.    | 04-08-17 | Zoology Deptt.                | Lecture - Climate Change                    |
| 4.    | 09-10-17 | Physics                       | Poster Making                               |
| 5.    | 10-11-17 | Botany                        | Slogan Competition                          |
| 6.    | 08-09-17 | N.S.S.                        | Clean Drive Campus                          |
| 7.    | 03-02-18 | Physics                       | Essay writing on Green Earth                |
| 8.    | 04-10-17 | Zoology                       | Poster Making on Diwali –Say no to Crackers |
| 9.    | 16-09-17 | Physics                       | Lecture –Ozone Layer                        |
| 10.   | 20-10-17 | N.S.S.                        | Tree Plantation                             |
| 11.   | 31-07-17 | N.S.S.                        | Really –Say no to plastic bags              |
| 12.   | 31-12-17 | N.S.S.                        | Clean campus drive                          |

### Green Campus of the college



**Tree plantation drive in the college campus**

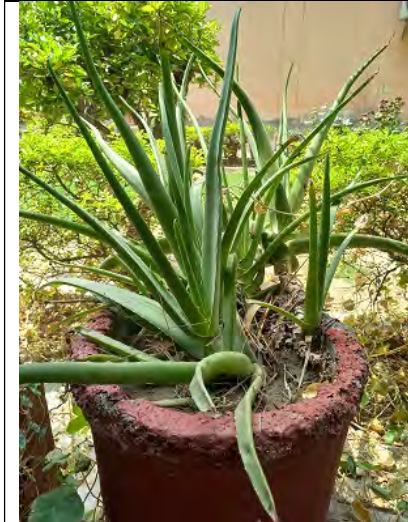


**Eco club activities**



**Indoor and outdoor plants in the college campus**





## 12. Land use data of C.R.A. College

CATEGORIES OF LAND USE AREA (sq.m. )

PLANTATION AREA, GREEN LAWNS AND GROUNDS 37800sq.m.

BUILT UP AREA (INCLUDE ROADS) 16200sq.m.

**TOTAL AREA= 54000 sq. m.**

The total area of C.R.A. College is 54000 sq.m out of which the built up area (include Roads) is 30% (i.e. 16200 sq.m.) and plantation area including grounds is 70% (i.e. 37800 sq. m. ).

### Land use analysis at CRA College

The built up area of 18% (i.e. 9720 sq.m. ) consists of the following regions as stated below for land consumption in built up area of CRA College:

The southern region of CRA is densely built up having Geography Labs. and auditorium.

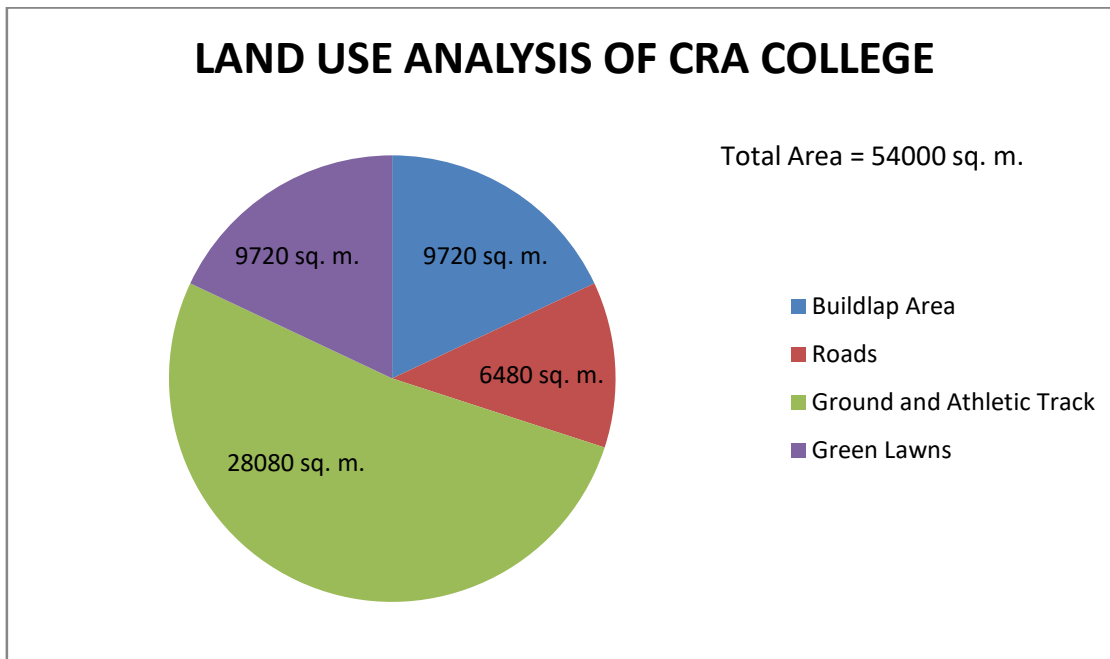
The northern region comprises of: Administrative Block and Class rooms

The western region consists Chemistry Labs. and class rooms

The eastern region consists Physics ,Botany and Zoology Labs. and class rooms

Sports ground and athletic track is situated on east side of college building

Canteen is situated on west side of college building.





## 13. Green Audit Findings

For Green Audit following major areas (including their sub-sections) were covered and compliance/ initiatives under these areas were verified/ validated,

- a) Good Daylight Design and Ventilation
- b) Water Efficiency
- c) Wastewater Management
- d) Indoor Air Quality
- e) Energy Management
- f) On-site Energy Generation
- g) Solid Waste Management
- h) Green Belt
- i) Green Programs (Green initiatives)

### 13.1 Good Daylight Design and Ventilation

- a) Classrooms, laboratories, offices, library etc. have high ceiling, wide doors and large windows.
- b) Building is designed in such a way that corridors and classrooms receive ample sunlight. Curtains are provided for laboratory windows to avoid glare. Natural light in the classrooms was about 70-85 lux.
- c) Ventilation in classrooms is facilitated by windows and fans. Cross ventilation is facilitated due to large windows on both sides of some classrooms. Air conditioners are used in offices, computer laboratories and computer server rooms.
- d) Exhaust fans are provided in washrooms, kitchen and chemistry laboratories.

### 13.2 Water Efficiency

- a) Major water source for College is tap water, supplied by M.C. Sonapat and College also has two bore wells in the campus which is used for water withdrawal. As informed by College's water management team, daily water consumption for the entire campus when in full operation is 25 KL, which includes 5 KL consumption in academic area and 20 KL for gardening.
- b) There are two water harvesting bore wells in which rain water of college building and grounds is dumped to raise ground water level
- c) RWH system: rain water collected is used for recharging ground water through 2 recharge bores.
- d) 2 water coolers connected with main RO plant are provided in College building as a source of safe drinking water. Audit team not found A.M.C. of RO plant.
- e) Restrooms and canteen are water intensive areas. Water conservation faucets (non-concussive taps, aerator taps) are fitted in some washrooms. Dual flushing systems are not provided in the washrooms.

- f) Dry and wet mopping is practiced for floor cleaning. Floors are mopped once a day.
- g) As informed by College's water management team, tap water leakage is immediately attended to by the maintenance department.
- h) Signage on water conservation were not seen in washrooms or near water purifiers.
- i) Sprinkler system is provided in all gardens which leads to water conservation.

### **13.3 Wastewater Management**

Wastewater is mainly generated from washing, toilet flushing, canteen kitchen and laboratories. Total 8 washrooms are provided in the College building (2 washrooms on each floor). Currently, sanitary wastewater generated is sent to underground safety tanks. There is no sewage treatment plant in the college.

### **13.4 Indoor Air Quality**

Indoor Air Quality (IAQ) refers to the air quality within & around buildings and structures, it relates to the health and comfort of building occupants. Common indoor pollutants are listed as below:

- Carbon monoxide – Sources of carbon monoxide are incomplete combustion of fossil fuels
- Volatile organic compounds (VOCs) – VOCs are emitted by paints and lacquers, paint strippers, pesticides, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions etc.
- Carbon dioxide – Due to human respiration
- Particulate matter – Due to construction and maintenance activities, vehicular pollution
- Nitrogen Oxides- Due to vehicular pollution

- a) Science laboratories and kitchen in the canteen use liquefied petroleum gas (LPG), a clean fuel.
- b) In classrooms, the mode of ventilation is natural draft (through windows) and is enhanced by fans. Large windows and cross-ventilation are observed in corridors. Air conditioners are used in some offices and computer laboratories. ACs are serviced regularly to ensure indoor air quality.
- c) Science laboratories are provided with exhaust fans so that the fumes are safely discharged outside the building.
- d) Green belts have been set up in the campus area.

### **13.5 Energy Efficiency**

Electricity:

- a) Common electricity meter is provided for the entire campus. Electricity is provided by UHBVN Ltd. Electricity bills of July 2017 to July 2018 were available for review (average consumption 7000 units/month). The areas of major consumption of electricity are: Tube Lights & LEDs 319, (30% LEDs) Fans (ceiling fans & wall fans) 187, Air Conditioners 16, Computers (desktops & laptops) 100, Projectors 12, RO system of 250 liter per hour.
- b) Conventional tube lights, LEDs & fans are installed in classrooms, laboratories and library. For efficient energy consumption and saving on electric bill, College has initiated the process of replacing incandescent bulbs and tube lights with LEDs.
- c) College has 16 air conditioners with two/ three/five -star ratings .
- d) Uninterruptible Power Supply (UPS) system is provided in computer laboratories for computers and servers. The UPS system is typically used to protect hardware viz. computers, data centres, telecommunication equipment or other electrical equipment when an unexpected power disruption could cause serious work disruption or data loss.
- e) Reflectors are not provided for lights in the library and auditorium. Reflectors can reduce the number of lights required and hence electricity consumption.
- f) All computers have LED screens; computers are shut down by turning off the main switch when not in use.
- g) Common switches are provided for some tube-lights & fans. To avoid wastage of energy due to common area illumination, it is recommended to have separate switches.
- h) Tube-lights and fans are switched off by students and staff when not in use. Instructions regarding switching off the electrical appliance were seen in laboratory notice boards. However, signage are not provided near electrical switch boards. Signage can encourage & help users to switch off lights and fans to save electricity.

### **13.6 On-Site Energy Generation**

(Usage of LPG/ Natural Gas)

- a) LPG cylinders are used mainly in canteen kitchen for cooking and in chemistry laboratories. Inventory of cylinders usage was not available for review. 1 cylinder of 19 kg generates 881.6 MJ (Mega Joules) of energy.
- b) Campus has a diesel generator (DG) of capacity 62.5 KVA. DG set is used only in case of emergency when there is power cut-off. DG emissions are not monitored.
- d) There is no Rooftop Solar panels installed on the terrace of College building.

### **13.7 Solid Waste Management**

Solid waste generated from campus includes mainly paper waste, wet (food/ organic) waste and Ewaste.

- a) Blue and Green covered/ pedal-pushed dustbins are placed in the premises. Waste bins are provided on each floor, in staff rooms, laboratories, washrooms, kitchen and in campus area.
- b) Daily around 25-50 kg organic/ bio-degradable waste is generated in the campus which includes horticultural waste. Quantity of horticulture waste varies significantly due to seasonal variation, e.g. around 50-70 kg of horticulture waste is generated daily in February- March due to leaf fall.
- c) College does not have vermicomposting unit for the treatment of horticulture waste .College is planning to install a new vermicomposting unit(10x1x1 m) for the treatment of horticulture waste generated in the campus.
- d) Being a College with non- residential facility, the quantity of wet (food/ organic) waste generated in the premises is minimum. Biodegradable wet waste is mostly generated from the canteen. College has initiated the process of installing a composting unit of 10-15kg/ day capacity for the treatment of canteen waste and some horticulture waste. e) In other areas like classrooms, mostly paper waste and plastic wrappers are generated.
- f) Segregation of wet and dry waste is practiced within the campus. However, there is no signage for promoting segregation of wet and dry waste.

#### **A) Paper Waste Management**

Being an academic institution, waste paper is one of the main solid wastes generated in the premises. College has taken steps to minimise and avoid paper usage.

- a) Prints and photocopies are taken on both sides of the paper to avoid excess paper usage. Rather than photocopy, digitalisation (scanning) is practised.
- b) College has two floor library with 50000+ books; journals, magazines, newspapers are also available in the library. There are no e-book facilities in the college library.
- c) Internal notices and communications are through e-mail/ SMS. College has a Learning Management System (LMS) where notices are sent, exam results are displayed and attendance is recorded digitally.
- d) Display Screen is required where notices can be displayed digitally.
- e) There is no paper recycling machine in the college, paper waste is sent to local vendor for recycling.

#### **B) E- Waste Management**

E- waste is broadly comprised of discarded computer monitors, motherboards, mobile phones and chargers, compact discs, headphones, Printed Circuit Boards (PCB), televisions etc.

- a) College is digitized to some extent. This includes 8 classrooms, library and administrative block etc.



b) E- waste is collected & stored in college campus and sent to authorised vendor for recycling/ disposal.

### **C) Plastic Waste**

a) College strictly follows the guidelines regarding plastic usage and has prohibited the use of single use plastic e.g. carry-bags, glasses, spoons etc., in the campus.

b) As per the College guidelines, Canteen Contractor is prohibited to use plastic cutlery, instead paper plates and wooden spoons are used.

### **13.8 Green Belt/ Landscaping**

a) As per the findings of internal green audit conducted by College, large trees include Peepal (*Ficus religiosa*), Goolar (*Ficus racemosa*), Pilkhan (*Ficus virens*), Ashok (*Saraca asoca*), Jamun (*Syzygium cumini*), Mango (*Mangifera indica*), Kadamb (*Neolamarckia cadamba*), Bael (*Aegle marmelos*), Gulmohar (*Delonix regia*), Champa (*Magnolia champaca*), KanakChampa (*Pterospermum acerifolium*), Semal (*Bombax ceiba*) and Neem (*Azadirachta indica*) etc. Few trees were identified and confirmed during virtual tour.

b) Fruit bearing trees attract variety of insects like wasps, bees, ants and beetles thus increasing the biodiversity. Various field-based projects were assigned to students studying Environmental Science Course to assess the birds and butterflies in College Campus. Student survey showed that the campus has total of 26 different bird species and 7 butterfly species. The different tree species provide habitat to variety of bird species.

c) College has indoor plants in the building. Indoor plants have aesthetic appearance as well as health benefits.

d) Gardens are managed by 3 malis. Organic fertilisers and pesticides are used for plants if necessary.

### **13.9 Green Initiatives**

Due to minimum consideration for environment & sustainability, the world is facing problems of ozone depletion, climate change, water scarcity and sustainable resource management. College organises guest lectures on environmental conservation, biodiversity etc. every year. College has demonstrated consistent commitment towards nature and environment. College has 'Eco Club' and the Garden Committee which offers wide spectrum of environmental and nature activities and platforms to enhance awareness and exhibit the relationship with nature. The National Service Scheme (NSS) and National Cadet Corps (NCC) of the college undertake projects for environment, rural development, education awareness, healthcare, etc. Various activities like cleanliness drive, tree-plantation, seminars and workshops are organised by 'Eco Club'/ Garden Committee/ NCC/ NSS increase the awareness and sensitivity among students and faculty. Visit to biodiversity parks, wetlands and other places of ecological importance are also being arranged by Eco Club. In the current scenario when academic activities are taking place virtually, College arranges webinars, online conferences pertaining to environment. Records of all activities are being maintained by the College which were available for review.

## 14. Faunal diversity in the campus

C.R.A. College is located in Sonapat District of Haryana is an industrial city known for cycle industry. It has got extreme climates. The highest temperature is recorded 48 C just prior to the onset of monsoon (around May- early June). Summer rain is normal, and is principally caused from late July to August by the moisture-laden South-West Monsoon, on striking the Himalayan foothills of the north. The climatic condition of the Sonipat district as a whole and CRA in particular is very suitable for a wide variety of flora and fauna to support its rich biodiversity. The faunal Diversity of CRA campus has been studied and documented as below:

Table: Common and Scientific names of birds and animals

| S.No | Common Name       | Scientific Name            |
|------|-------------------|----------------------------|
| 1.   | Myna              | Acridotheres Tristis       |
| 2.   | Bank Myna         | Acridotheres Ginginianus   |
| 3.   | House Sparrow     | Passer Domesticus          |
| 4.   | House Crow        | Corvus Splendens           |
| 5.   | Cuckoo            | Cuculidae                  |
| 6.   | Snake             | Naja Naja                  |
| 7.   | Yellow Wasp       | Ropalidia Marginata        |
| 8.   | Butter Fly        | Danaus Genutia             |
| 9.   | Common Woodshrike | Tephrodornis Pondicerianus |
| 10.  | Pied Myna         | Gracupica Contra           |
| 11.  | Red-Vented Bulbul | Pycnonotus Cafer           |
| 12.  | Skylark           | Aluda Gulgula              |
| 13.  | Garden Tiger Moth | Arctia Caja                |
| 14.  | Little Owl        | Athene Brama               |
| 15.  | Oleander Moth     | Syntomeida Epilais         |
| 16.  | Slender Skimmer   | Orthetrum Sabin.           |

## 15. List of Plant present in the Campus including Herbal Garden

List of some plant species present in the campus is given below

1. Silver Oak (*Grevillea robusta*)
2. Dhak (*Butea monosperma*)
3. Kanak Champa (*Pterospermum acerifolium*)
4. Red Gum (*Eucalyptus australensis*)
5. Neem (*Azadirachta indica*)
6. Lemon (*Citrus limon*)
7. Bottle Palm (*Roystonea regia*)
8. Jamun (*Syzygium cumini*)
10. Peepal (*Ficus religiosa*)
11. Gulmohur (*Delonix regia*)
12. Mango (*Mangifera indica*)
13. Bottle Palm (*Roystonea regia*)
14. Toot (*Morus alba*)
15. Ashok (*Polyalthia longifolia*)
16. Goolar (*Ficus racemosa*)
17. Champa (*Plumeria rubra*)
18. Shisham (*Dalbergia sissoo*)
19. Harshingar (*Nyctanthes arbor-tristis*)
20. Pilkhan (*Ficus virens*)
21. Bottle Brush (*Callistemon* spp)
22. Maulsari (*Mimusops elengi*)
23. Kadamb (*Neolamarckia cadamba*)
24. Guava (*Psidium guajava*)
25. Ficus Panda (*Ficus panda*)
26. Amla (*Phyllanthus emblica*)
27. Chinese Lemon (*Citrus* spp.)
28. Jungle Jalebi (*Pithecellobium dulce*)
29. Bargad (*Ficus benghalensis*)
30. Amaltas (*Cassia fistula*)
31. Mahua (*Madhuca longifolia*)
32. Bael (*Aegle marmelos*)
33. Siris (*Albizia lebeck*)
34. Imli (*Tamarindus indica*)
35. Kachnar (*Bauhinia variegata*)
36. Pomegranate (*Punica granatum*)
37. Pilkhan (*Ficus virens*)
38. Copperpod (*Peltophorum pterocarpum*)
39. Babool (*Acacia nilotica*)
40. Yellow Oleander (*Thevetia peruviana*)
41. Arjun (*Terminalia arjuna*)

## 16. Recommendations

1) College has implemented several green initiatives such as rainwater harvesting, herbal garden, plantation drives etc. but some more initiatives like vermicomposting, solar PV system and sewage

treatment are required in promoting sustainability. College should develop monitoring mechanism and generate & maintain the performance records of the green infrastructure.

2) Water consumption can be reduced further through various conservation methods. Replacement of all old water faucets with water saving faucets such as pressmatic taps, aerator taps, jet sprays etc. can save water and help in minimising the water footprint.

3) Treated sanitary wastewater can be recycled for toilet flushing by providing dual pumping system.

4) College should test water quality at regular intervals, develop water demand/ balance diagram and a plan delineating water conservation practice.

5) Records of pipe/ water taps leakage complaints should be maintained as a part of Standard Operating Procedures (SOPs).

6) Solid waste generated in campus includes paper waste, E-waste, plastic waste, food waste from canteens and dry recyclable waste from gardening. Paper waste and E-waste are given to approved agencies for recycle/ disposal. Inventories & management processes of all waste (including food and dry recyclable waste) should be well documented.

7) Signage regarding water conservation, reduction & segregation of plastic waste, reduction in food waste, waste segregation can be put up near drinking water facilities and other places to create awareness among staff and students.

8) Mirror optic reflectors can be retrofitted on existing tube lights as the reflectors can spread light to relatively large areas. Control sensors can help to reduce consumption by automatically dimming lights when people are not around.

9) Every classroom and laboratory with central switch board can have a diagram linking location of a tube light, fan etc. with corresponding switch. This will ensure that correct fitting is switched on/ off and can save time & unnecessary operation. The awareness regarding energy management could be improved by encouraging students to help in monitoring energy consumption and by integrating energy education into classroom learning.

10) College is procuring LED lights and electrical equipment with star ratings. SOPs should be prepared and followed for purchasing green equipment, equipment star rating and eco-friendly materials.

11) It is recommended that indoor air quality, noise levels and water quality to be monitored once in 6 month and records to be maintained as per IS: 10500. <https://scclmines.com/env/DOCS/NAAQS-2009.pdf> <http://cgwb.gov.in/Documents/WQ-standards.pdf>

12) It is recommended to measure emissions from diesel generator and ambient air quality at least once a year.

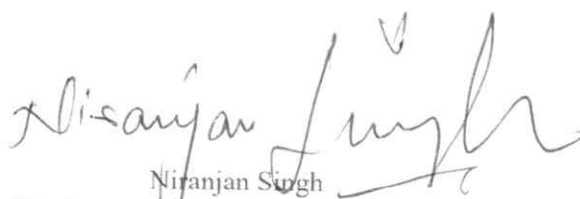
13) Air quality, water quality, noise level monitoring within College campus can be included as shortterm projects under course curricula. This will help the students to get first-hand experience in environmental monitoring and also help College to maintain records of the quality of important environmental attributes. Additional credits can be considered for students who are part of the project team.



- 14) There should be a schedule for safety training, fire-fighting drills and mock drills. Records of these activities should be maintained.
- 15) Fire hydrants and fire alarm systems can be installed in the College. Fire hydrant and alarm system can be commissioned after receiving the NOC.
- 16) Fire safety drills should be conducted at regular intervals and their records should be maintained.
- 17) Safety, Health and Environment (SHE) groups can be formed which will include staff members and students. They can have regular meetings, and suggestions to be recorded and implemented if found suitable.
- 18) Emergency escape route plans should be provided on each floor. Floor plan should be clearly visible with an emergency exit and assembly point.
- 19) Records of green and environmental initiatives conducted by College should be maintained properly which will include aim & objective of the initiative, details in brief and the outcome.

## 17. Conclusion

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. Chhotu Ram Arya College has Environmental Committee for sustainable use of resources. The audit has identified several observations for making the college 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 solar panel installation, vermin composting, water saving faucets, waste management records by monthly inventory of hazardous waste, water balance cycle and periodic inspection of buildings housekeeping and environment policy.



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## **6. Environment Audit**

# ENVIRONMENT AUDIT REPORT



2017-2018



Chhotu Ram Arya College  
Sonapat- 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.)<br>Chhotu Ram Arya Collge<br>Sonipat        |
| 2      | Dr. J.S.Phor     | Associate Professor of Physics<br>Chhotu Ram Arya Collge<br>Sonipat   |
| 3      | Dr. Sadhna Tyagi | Associate Professor of Geography<br>Chhotu Ram Arya Collge<br>Sonipat |
| 4      | Dr. Seema Kuhad  | Assistant Professor of Zoology<br>Chhotu Ram Arya Collge<br>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:

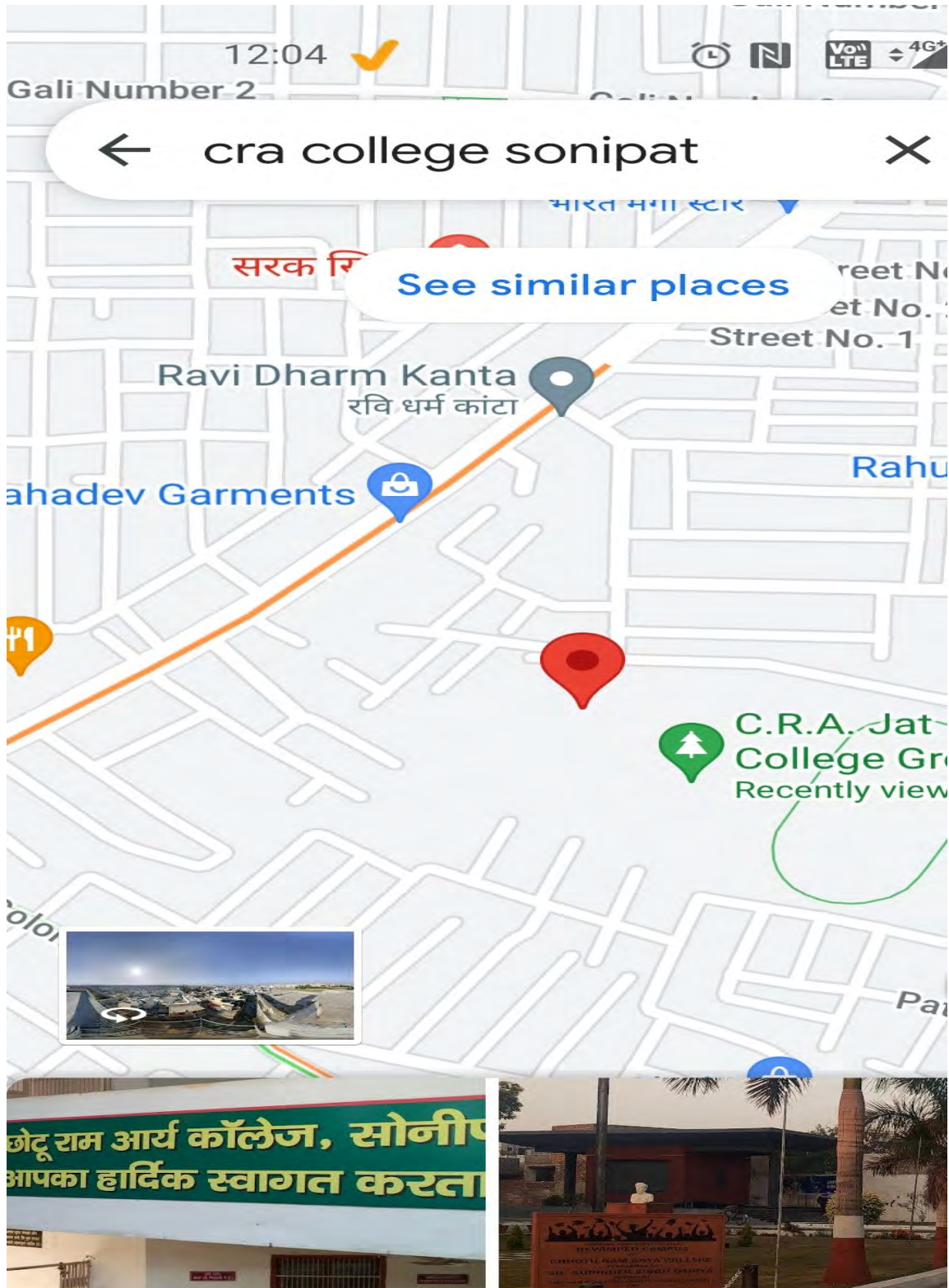
Longitude- 77°0'26.78"E

Latitude- 28°59'10.28"N





# CRA COLLEGE GOOGLE MAP

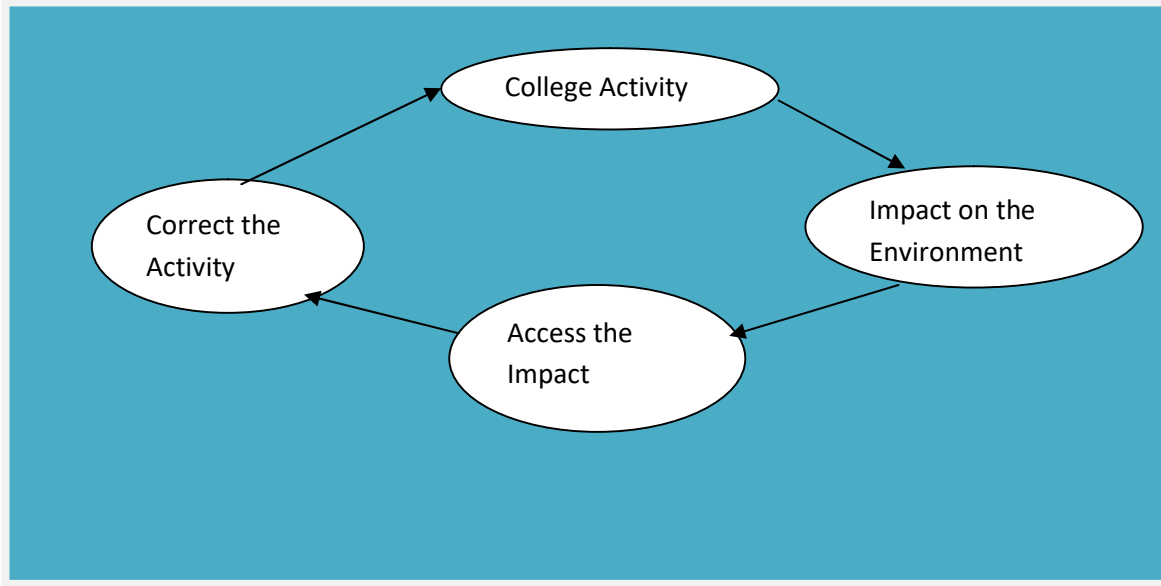




## 6. Audit Objective and Scope

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<br>Non-Biodegradable =5Kg<br>Hazardous others =nil   |
| How is the waste generated in the institute managed? By<br>1 Composting<br>2 Recycling<br>3 Reusing<br>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<br>Number of Staff working in Horticulture Department | Yes, dedicated gardeners for maintaining the gardens and other landscaping.<br>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<br>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<br>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.
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- 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 .
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## 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. :



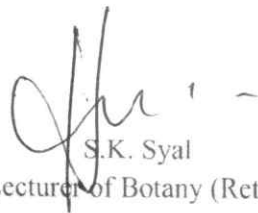
Aerial view of green campus:





## 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.



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