



RSET's

Ghanshyamdas Saraf
college of arts & commerce

CRITERION NUMBER	VII
KEY INDICATOR	7.1.3 - Quality audits on environment and energy undertaken by the Institution.

SR No.	CONTENTS	PAGE NOs
1	Report on Environmental Promotional activities conducted beyond the campus (2019 – 2020 to 2023-2024)	1
2	Policy document on environment and energy usage Certificate from the auditing agency	67
3	Green audit/environmental audit report from recognized bodies	80
4	Certificates of the awards received from recognized agency	146

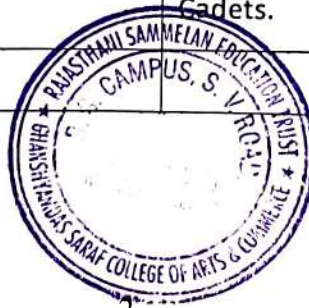
2023 – 2024



Internal Quality Assurance Cell (IQAC)
Activity/ Event Report 2023-2024
Organising Committee: NCC

Sr no.	Description	Remarks
1	Name of the Event	International Plastic Bag Free Day
2	Date of Event	3rd July 2023
3	Timing of the Event	10:00HRS To 12:00HRS
4	Activity A. On Campus B. Beyond Campus Activity	Activity Was Held Beyond The Campus
5	Venue	NIL
6	Purpose/Objective of the activity	Help to make our world free from plastic.
7	Teacher In-charge	Lt. Preeti Jha Prof. Srishti Shetty Prof. Lokesh Gupta
8	Number of Participants	15 Cadets
9	Organizing Committee	GS NCC UNIT
10	Collaborating Outside Agency/ Person	NIL
11	Brief Report/ Programme Outcome	Cadets Of Ghanshyamdas Saraf College Celebrated plastic free Day to encourage our students and also the citizens to stop using plastics and use other alternative which are good for our environment. Cadets prepared handmade cloth bags and distributed them .Event was fruitful to everyone. Total Strength Was Of 15 Cadets.
12	Other Specify	NIL

Lt Preeti Jha
Associate NCC Officer
8 MAH Girls Bn. NCC
Ghanshyamdas Saraf College
Malad (West)





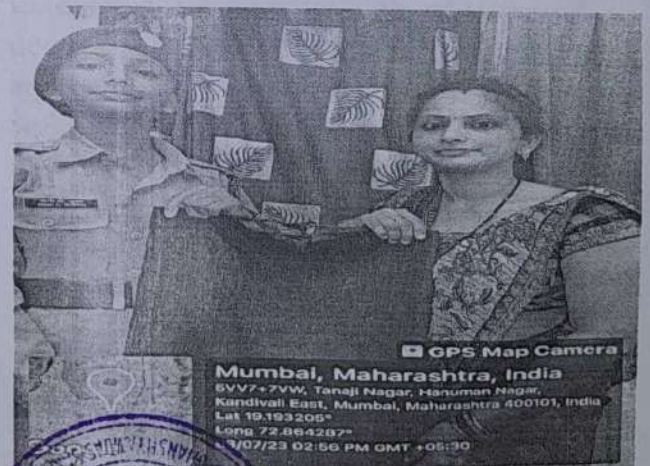
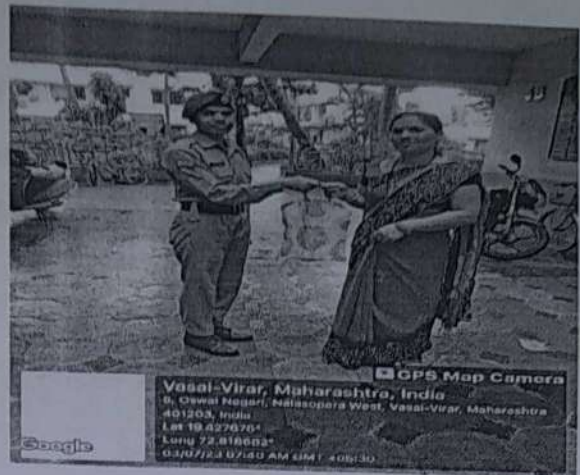
Ghanshyamdas Sarai
College of Arts & Commerce
EDUCATION PRIORITIES

COMMITTEE NAME	NATIONAL CADET CORPS
PROF. IN CHARGE	LT. Preeti Jha / Srishti Shetty
EVENT NAME	International Plastic Bag Free Day
EVENT DATE & DAY	3rd July, 2023 (Monday)
EVENT TIMINGS	
SIGNATURE OF THE PROF. IN CHARGE	<i>Preeti</i>

SR. NO.	NAME OF THE STUDENTS	ID CARD NO.	ROLL NO.	CLASS	DIV	SIGN
1	Cdt. Pooja Vishwakarma	9920062	137	SYB.COM	B	Pooja
2	Cdt. Rinku Ram	9917186	243	TYB.COM	C	Rinku
3	Cdt. Yashika Soude	9924402	852	SYB.COM	F	Yashika
4	Cdt. Archi Joshi	9924887	694	SYB.COM	R	Archi
5	Cdt. Rinka Chaurasiya	9926181	11	SYB.COM	A	Rinka
6	Cdt. Dimple Gaoghre	9924800	106	SYB.COM	A	Dimple
	Cdt. Shriya Hegde	9924951	121	SYBMS	B	Shriya Hegde
	Cdt. Kajal Saw	9925922	846	SYB.COM	F	Kajal
	Cdt. Aanchal Rai	9925749	143	SYBMS	B	Aanchal
10	Cdt. Sakshi Yadav	9926296	986	SYB.COM	G	Sakshi
11	Cdt. Sakshi Tiwari	9925511	154	SYBMS	B	Sakshi
12	Cdt. Rani Gupta	9926345	30	SYBAF	A	Rani
13	Cdt. Jyoti Kacher	9926275	697	SYB.COM	E	Jyoti
14	Cdt. Riya Sawant	9924492	388	SYB.COM	C	Riya
15	Cdt. Ragini Yadav	9918795	666	TYB.COM	E	Ragini
16	Cdt. Heena Khan	8127079	40	TYB.COM	A	Heena



13. Photos:





Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

Internal Quality Assurance Cell
Activity/ Event Report 2023-2024
Committee Involved: Green Initiative

Sr. no.	Description	Remarks
1	Name of the Event	Tree Plantation
2	Date of Event	15.08.2023
3	Timing of the Event	8:00 am to 12 noon
4	Activity: A) In Campus B) Beyond Campus Activity	Beyond Campus Activity
5	Venue	General Hospital, Jankalyan Nagar
6	Purpose / Objective of the activity	To make students aware about the importance of green environment.
7	Teacher In-charge	Dr. Anil Dhimdhime
8	Number of Participants	10
9	Organizing Committee	Green Initiative Committee
10	Collaborating Outside Agency/ Person	No.
11	Brief Report/ Programme Outcome	All students understood the importance of planting trees is a boom for our environment.
12	Other Specify	N.A.


Convenor

Dr. Anil Dhimdhime





Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

Tree Plantation Activity Report **Green Initiative Committee**

Details of the Event/Activity:

GSCC – Green Initiative committee organised “Tree Plantation Programme” on Tuesday, 15th August, 2023 from 7 am till 11 am at General Hospital, Jankalyan Nagar, Malad West. Hence, the activity was beyond-Campus one.

Students were enlightened on Indigenous Trees Plantation and its importance to the Indian Ecology.

Dr. Anil Dhimdime was the teacher in charge for the activity. Total 10 students participated in the event.

Aim of the Event/Activity:

The objective of the event was to educate the students the importance of Indigenous trees & its plantation and why the plantation of foreign trees should be avoided.

Outcome of the Event/Activity:

Students understood that why plantation of Indigenous trees should take place and why foreign trees plantation should be avoided. Students understood the importance of working in the soil, its benefits to the body and happily participated in Tree Plantation Activity.

The programme concluded satisfactorily.


Convenor

Dr. Anil Dhimdime



Few glimpses of Tree Plantation:



[Handwritten signature]





Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

Internal Quality Assurance Cell
Activity/ Event Report 2023-2024
Committee Involved: Green Initiative

Sr. no.	Description	Remarks
1	Name of the Event	Beach Cleaning
2	Date of Event	16.09.2023
3	Timing of the Event	07:00 am to 10:00 am
4	Activity: A) In Campus B) Beyond Campus Activity	Beyond Campus Activity
5	Venue	AKSA Beach, Malad
6	Purpose / Objective of the activity	To keep our environment clean and green.
7	Teacher In-charge	Dr. Anil Dhimdhome
8	Number of Participants	10
9	Organizing Committee	Green Initiative Coommittee
10	Collaborating Outside Agency/ Person	No.
11	Brief Report/ Programme Outcome	It provided the society with better quality of environment. Helped keep our beaches neat and clean.
12	Other Specify	N.A.

Convenor
Dr. Anil Dhimdhome





Clean Up – Beach Cleaning Report 2023-2024 Green Initiative Committee

Details of the Event/Activity:

On the eve of “International Coastal Clean-up - Beach Cleaning” activity held by Green Initiative Committee on Saturday 16th September, 2023 from 07:00 a.m. till 11:00 p.m. The venue was Aksa Beach, Marve Road, Malad west. Hence, the activity was beyond campus one.

The students reported at 6:45 am on Aksa Beach & participated enthusiastically in the activity.

Dr. Anil Dhimdhome was the teacher in charge for the activity. Total 10 students participated in the activity.

Aim of the Event/Activity:

The objective of the event was to encourage students for Beach Cleaning and to create awareness to keep the Beaches clean thereby preventing the environmental pollution & conserving Aquatic Animals and Plants.

Outcome of the Event/Activity:

Students understood the importance of keeping the beaches clean thereby protecting the marine life like fishes, shrimps, Crabs, octopus, marine algae, sea grass, fishing birds and animals.

The clean beaches results in healthy sea animals and plants thereby protecting the health of human beings.

The students promised to take initiative in cleaning the beaches in Mumbai. The activity ended satisfactorily.


Convenor

Dr. Anil Dhimdhome



Few glimpses of Beach Cleaning Drive:



Sahil Kadam





Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

Sr. No	Description	Remarks
1	Name of the Event	Beach Cleaning
2	Date of Event	16 th September 2023, Saturday
3	Timing of the Event	7.30 am to 9:30 am
4	A. In Campus B. Beyond Campus Activity	Beyond Campus Activity
5	Venue	Aksa Beach
6	Objective of the activity	Objective of beach cleaning is to remove litter, debris, and pollutants from beaches to preserve their natural beauty and ensure a safe and clean environment.
7	Teacher In-charge	Prof. Rajkumar Jaiswal, Prof. Yogita Mahimkar, Prof. Nikita Rastogi
8	Number of Participants	26 NSS Volunteers
9	Organizing Committee	GREEN SOCIETY COMMITTEE
10	Collaborating Outside Agency	
11	Brief Report/ Programme Outcome	Our volunteers used tools like gloves, trash bags, and pickers to collect and properly dispose of trash to preserve the beauty of our coastal areas.
12	Other Specify	






Ghanshyamdas Saraf
college of arts & commerce

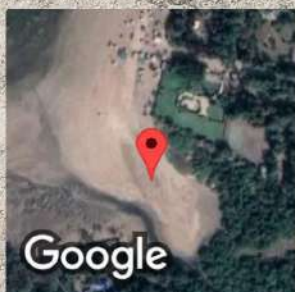
EDUCATION EMPOWERS

COMMITTEE NAME		NSS UNIT					
PROF INCHARGE		Prof. Rajkumar Talwar, Yogita Mahankar, Nikita Raskogi					
EVENT NAME		Beach cleaning					
EVENT DATE & DAY		16 th September, Saturday					
EVENT TIMINGS		7:00 am to 1:00 pm					
Sr. No.	Name	ID card no.	Roll No.	Class	Div	Sign	
1	Amran Agarwal	9927372	103	SYBMS	B	Amran	
2	Peiya Gupta	9926402	09	SYBMS	A	Peiya	
3	Utkarsh Singh	9927702	154	SYBMS	B	Utkarsh	
4	Diya Agarwal	9924467	02	SYBFM	A	Diya	
5	Ankita Bera	9925678	28	SYBCAF	A	Ankita	
6	Nazema Monin	9932345	28	FYBSCIT	A	Nazema	
7	Dattaram Bhalp	9933810	06	FYBFM	A	Dattaram	
8	Shreyash Kap	9934256	25	FYBFM	A	Shreyash	
9	Kundan Mohanty	9934038	32	FYBFM	A	Kundan	
10	Nidhi Pawar	9932689	51	FYBSCIT	A	Nidhi	
11	Vinod Choudhary	9926186	18	SYBCAF	A	Vinod	
12	Rohit Kashid	9925529	51	SYBCAF	A	Rohit	
13	Khushi Choudhary	9932382	3	FYBSCIT	A	Khushi	
14	Meera Parmar	9934772	102	FYBCBI	B	Meera	
15	Disha Patel	9932486	30	FYBSCIT	A	Disha	
16	Harshita Vyas	9934978	144	FYBCAF	B	Harshita	
17	Vipul Sapareya	9924748	115	SYBCBI	B	Vipul	
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22	Shweta Dobey	9918178	42	TYBCOM	A	Shweta
23	Gaurav Puneet	9933121	813	FYBCOM	F	Gaurav
24	Shahikh Tabrez Ali	9933079	954	FYBCOM	G	Shahikh
25	Kirti Shetty	9925266	922	SYBCOM	G	Kirti
26	Sakshi Gavale	9934709	790	FYBCOM	F	Sakshi
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 GPS Map Camera



Mumbai, Maharashtra, India

22, Axa Bch Rd, Dharvali, Aksa Gaon, Malad West, Mumbai,
Maharashtra 400104, India

Lat 19.172122°

Long 72.794797°

16/09/23 08:10 AM GMT +05:30

Internal Quality Assurance Cell (IQAC)

Activity/ Event Report 2023-2024

Organising Committee:

Department of Lifelong Learning and Extension (DLLE)

Sr no.	Description	Remarks
1	Name of the Event	Tree plantation drive
2	Date of Event	16/09/2023
3	Timing of the Event	9am to 12 noon
4	Activity A. In Campus B. Beyond Campus Activity	Beyond Campus Activity
5	Venue	Charkop sector number 9 , Kandivali West
6	Purpose/Objective of the activity	To help nature and mother earth to get its natural beauty and components back. To help students understand the value of plants and trees and inspire students to provide these services to society.
7	Teacher In-charge	Convener and Members of the Committee.
8	Number of Participants	45 students
9	Organizing Committee	DLLE, Green Initiative ,NCC,Rotaract, NSS
10	Collaborating Outside Agency/ Person	None
11	Brief Report/ Programme Outcome	Students were encouraged for proper maintenance and preservation of trees together with other vegetation. Students were made aware to uplift the quality of the living environment through active planting and afforestation.
12	Other Specify	-

[Signature]

Dr. Mittal Shah
DLLE Convenor



[Signature]
Dr. Ashwat Desai

Principal
PRINCIPAL

Rajasthani Sammelan Education Trust
Ghanshyamdas Saraf College
Of Arts & Commerce





Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

Sr. No	Description	Remarks
1	Name of the Event	Swachhata Hi Seva
2	Date of Event	1 st October 2023, Sunday
3	Timing of the Event	9.00 am to 12:00 pm
4	A. In Campus B. Beyond Campus Activity	Beyond Campus Activity
5	Venue	University of Mumbai, Kalina
6	Objective of the activity	Cleanliness is our only moto, to keep to environment clean.
7	Teacher In-charge	Prof. Rajkumar Jaiswal, Prof. Yogita Mahimkar, Prof. Nikita Rastogi
8	Number of Participants	5 NSS Volunteers
9	Organizing Committee	University of Mumbai
10	Collaborating Outside Agency	
11	Brief Report/ Programme Outcome	Our Volunteers participated in the cleanliness drive on the venue which was followed by the live recycling process of plastic waste, to make use of the waste plastic and keep our environment safe and clean.
12	Other Specify	






Ghanshyamdas Saraf college of arts & commerce

EDUCATION EMPOWERS

COMMITTEE NAME		NSS Unit					
PROF INCHARGE		Prof Raj Kumar Jaiswal, Yogita Mahimkar, Nikita Rastogi					
EVENT NAME		Swachhta hi Seva (Bantacuz)					
EVENT DATE & DAY		1st Oct 2023 Sunday					
EVENT TIMINGS		9:00 am to 12:00 pm.					
Sr. No.	Name	ID card no.	Roll No.	Class	Div	Sign	
1	Ankit Jha	9934468	34	FYBMS	A	Anka	
2	Vaishali Soni	9934460	141	FYBMS	B	Vaishali	
3	Shreywin Britto	9924596	07	SYBSCIT	A	Shreywin	
4	Dolly Jha	9924922	15	SYBMS	A	Dolly	
5	Priya Gupta	9926402	09	SYBMS	A	Priya	
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 GPS Map Camera

Mumbai, Maharashtra, India

University of Mumbai, Vidya Nagari, Kalina, Santacruz East, Mumbai,
Maharashtra 400098, India

Lat 19.068826°

Long 72.857594°

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Internal Quality Assurance Cell (IQAC)

Activity/ Event Report 2023-2024

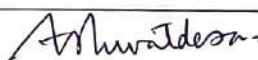
Organising Committee:

Department of Lifelong Learning and Extension (DLLE)

Sr no.	Description	Remarks
1	Name of the Event	Swachhata hi Seva Initiative
2	Date of Event	2/10/2023
3	Timing of the Event	8am to 11am
4	Activity A. In Campus B. Beyond Campus Activity	Beyond Campus Activity
5	Venue	General Hospital, Jankalyan Nagar
6	Purpose/Objective of the activity	Removal of garbage from hospital premises. Painting and cleaning of hospital grills. To create awareness and understanding the importance of waste segregation at source, journey of waste and waste to wealth
7	Teacher In-charge	Convener and Members of the Committee.
8	Number of Participants	46 students
9	Organizing Committee	DLLE
10	Collaborating Outside Agency/ Person	None
11	Brief Report/ Programme Outcome	Improved hospital premises hygiene. Increased awareness and educational value with regards to cleanliness of public spaces.
12	Other Specify	-



Dr. Mittal Shah
DLLE Convenor



Dr. Ashwat Desai

Principal
PRINCIPAL

Rajasthan Sammelan Education Trust
Chanshyamdas Saraf College
Of Arts & Commerce



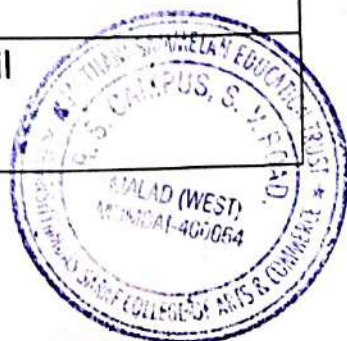


2022 – 2023



**Internal Quality Assurance Cell
(IQAC)
Activity/ Event Report 2022-2023
Organising Committee: NCC**

Sr no.	Description	Remarks
1	Name of the Event	World Environment Day
2	Date of Event	05th June, 2022
3	Timing of the Event	(Online event)
4	Activity. A. In Campus B. Beyond Campus Activity	Activity was held beyond campus.
5	Venue	Online Platform
6	Purpose/Objective of the activity	Celebration of world Environment day
7	Teacher In-charge	Lt. Preeti Jha Prof Srishti Shetty Prof Lokesh Gupta
8	Number of Participants	12
9	Organizing Committee	NCC
10	Collaborating Outside Agency/ Person	Nil



11	Brief Report/ Outcome	World Environment day is celebrated annually on 5th of June this day encourages action and initiative for the protection of environment. It is a significant day as it raises awareness against increasing scrutiny on environment and its harmful effects on every living being's life. Cadets of Ghanshyamdas Saraf College took initiative to spread awareness related to environment through help of posters, banners and articles.
12	Other Specify	Nil

Preeti

Lt. Preeti Jha

[CONVENOR]

Lt Preeti Jha
Associate NCC Officer
MAH GHS Ch. NCC
Ghanshyamdas Saraf College
Malad (West)





Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

COMMITTEE NAME	NCC
PROF. INCHARGE	
EVENT NAME	Lt. PREETI JHA / Prof. <u>Prachi Ghelty</u>
EVENT DATE & DAY	ENVIRONMENTAL DAY
EVENT TIMINGS	05-06-22 & TUESDAY SUNDAY
SIGNATURE OF THE PROF. INCHARGE	<u>Prachi</u>

SR.NO	NAME OF THE STUDENTS	ID CARD NO.	ROLLNO.	CLASS	DIV	SIGN
1	POSTER					
2	Ragini Yadav	9918795	560	SYBLOM	D	<u>Ragini</u>
3	Madhu Gaud	9917321	77	SYBLOM	A	<u>Madhu</u>
4						
5	ARTICLE					
6	Karina Gorinwale	3397807	688	SYBLOM	D	<u>Karina</u>
7	Prachi Gole	3035519	26	SYBLOM	A	<u>Prachi</u>
8	Antima Prajapati	9918637	344	SYBLOM	C	<u>Aprajapati</u>
9						
10	Prachi Yadav	9918082	134	SYBCAF	B	<u>Prachi</u>
11	Rinku Ram	9917186	180	SYBLOM	B	<u>Rinku</u>
12	Bindu Rana	9917515	833	SYBLOM	F	<u>Bindu</u>
13	Archana Baki	9917266	364	SYBLOM	C	<u>Archana</u>
14	Riya Yadav	9917261	541	SYBLOM	D	<u>Riya</u>
15	Anisha Gole	3033730	303	SYBLOM	B	<u>Anisha</u>
16	Heena Khan.	3127079	418	SYBLOM	C	<u>Heena</u>
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GPS Map Camera

Mumbai, Maharashtra, India

5VV7+39G, Kandivali, Shiv Sagar, Kandivali East, Mumbai,
Maharashtra 400101, India

Lat 19.192661°

Long 72.863503°

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Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

Date: 1st July 2022

NCC NOTICE

We all know that plastic is very harmful for our environment. So, All NCC Cadets are hereby informed that we are observing **PLASTIC BAG FREE DAY-** under 8 Mah Girls BN unit, on 3rd July 2022.

The theme is '**SAY NO TO PLASTIC BAGS**' On this day to create awareness in the neighbourhood the cadets will prepare paper bags and jute bags.

'ONE STEP FOR A BETTER ENVIRONMENT TODAY IS ONE STEP TOWARDS A BETTER FUTURE TOMORROW'. So, do actively participate in this event.

Prate
NCC ANO

Seema Agarwal
VICE-PRINCIPAL
(B.com)

✓
VICE-PRINCIPAL
(B.com)

Lipi Mukherjee
VICE-PRINCIPAL
(SFD)

Ashwat Desai
i/C PRINCIPAL

Dr. Seema Agarwal

prof. Gurunathan Pillai

Dr. Lipi Mukherjee

Dr. Ashwat Desai





**Internal Quality Assurance Cell
(IQAC)
Activity/ Event Report 2022-2023
Organising Committee: NCC**

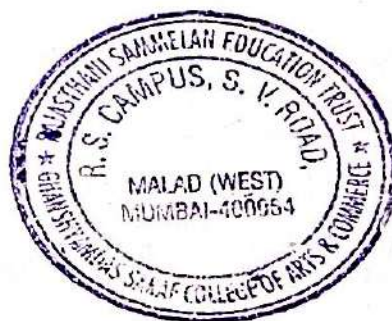
Sr no.	Description	Remarks
1	Name of the Event	Plastic Bag Free Day
2	Date of Event	3 rd July 2022
3	Timing of the Event	11 Am To 1 Pm
4	Activity . A. On Campus B. Beyond Campus Activity	Activity was held on Beyond the campus.
5	Venue	Online platform
6	Purpose/Objective of the activity	Make surrounding plastic free
7	Teacher In-charge	Lt. Preeti Jha Prof Srishti Shetty Prof Lokesh Gupta
8	Number of Participants	13 Cadets
9	Organizing Committee	NCC
10	Collaborating Outside Agency/ Person	Nil
11	Brief Report/ Programme Outcome	International Plastic Bag Free day is celebrated annually on July 3rd. This day signifies the harm that plastic and other plastic made products cause to environment, human race and the future generation itself. Cadets of Ghanshyamdas Saraf College drew

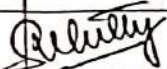


		posters, made videos. Newspaper bags also distributed it in their neighbourhood, creating awareness about the harm caused by use of plastics and took the initiative to replace plastic bags with paper bags and other alternatives.
12	Other Specify	Nil

Preeti
Lt. Preeti Jha
[CONVENOR]

Lt Preeti Jha
Associate NCC Officer
8 MAH Cnls Bn. NCC
Ghanshyamdas Saraf College
Malad (West)



COMMITTEE NAME		NCC				
PROF. INCHARGE		Lt. PREETI JHA / Prof. Shishu Shetty				
EVENT NAME		PLASTIC BAG FREE DAY				
EVENT DATE & DAY		03-07-22 SUNDAY				
EVENT TIMINGS		11 am To 1 pm				
SIGNATURE OF THE PROF. INCHARGE						

SR.NO	NAME OF THE STUDENTS	ID CARD NO.	ROLLNO.	CLASS	DIV	SIGN
1	POSTER					
2	Madhus Gaud	9917321	77	54BLOM	A	Madhu
3	Aloha Maurya	9916968	265	54BLOM	B	Anurupa
4	Anisha Gole	3033730	303	54BLOM	B	Anisha
5	Riya Yadav	9917261	541	54BLOM	D	Riya
6	Prachi Gole	3035519	26	54BLOM	A	Prachi
7						
8						
9	SPEECH VIDEO					
10	Kajal Yadav	3304379	62	54BAF		Kajal
11						
12	VIDEO EDITING					
13	Ragini Yadav	9918795	560	54BLOM	D	Ragini
14						
15	BAG DISTRIBUTION					
16	Rinku Ram	9917186	180	54BLOM	B	Rinku
17	Sunaina Gupta	9917962	100	54BLOM	A	Sunaina
18	Pooja Vishwakarma	9920060	336	54BLOM	C	Pooja
19	Pooja Chaudhary	33205	468	54BLOM	C	Pooja
20	Hena Khan	337079	418	54BLOM	C	Hena
21						



SR.NO	NAME OF THE STUDENTS	ID CARD NO.	ROLLNO.	CLASS	DIV	SIGN
22	PAPER BAG VIDEO					
23	Aloha Maurya	9916968	265	SYBLOM	B	Anurag H
24	Kasina Gorivale	2397807	688	SYBCOM	D	Gorivale
25						
26	(Banner) Sakshi Shrivastava	9978695	232	SYBCOM	B	Sakshi
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GPS Map Camera

Mumbai, Maharashtra, India

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Maharashtra 400065, India

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Long 72.877788°

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Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

Internal Quality Assurance Cell (IQAC)
Activity/ Event Report 2022-2023

Organising Committee: Rotaract Club of Gsec

Sr no.	Description	Remarks
1	Name of the Event	CLAN A THON
2	Date of Event	10 th Sept 2022
3	Timing of the Event	8:00 - 10:00 am
4	Activity A. In Campus B. Beyond Campus Activity	Beyond Campus activity
5	Venue	Suhu Beach.
6	Purpose/Objective of the activity	Cleanliness is Next to the God. [Clean Suhu after Visarjan].
7	Teacher In-charge	Dr. Rupa Shah.
8	Number of Participants	18
9	Organizing Committee	Rotaract Club.
10	Collaborating Outside Agency/ Person	
11	Brief Report/ Programme Outcome	This Initiative is created & Interested people joined the event
12	Other Specify	for this amazing exp.

Convenor

[PRINCIPAL]



BCOM



Ghanshyamdas Saraf
college of arts & commerce

EDUCATION EMPOWERS

COMMITTEE NAME	Rotaract Club
PROF INCHARGE	Dr. Rupa Shah
EVENT NAME	Cleanathon
EVENT DATE & DAY	10th Sept 2022, Saturday
EVENT TIMINGS	7:00 am to 11:00 am

Sr. No.	Name	ID card no.	Roll No.	Class	Div	Sign
1	Soham Gandhi	992439	151	FYBCOM	B	<i>Soham</i>
2	Reena Vishwakarma	9910440	532	TYBCOM	D	<i>Reena</i>
3	Sudha Jaiswal	9911712	265	TYBCOM	B	<i>Sudha</i>
4	Samriddhi Satam	9918260	374	SYBCOM	C	<i>Samriddhi</i>
5	Krish Pipaliya	999407	340	SYBCOM	C	<i>Krish</i>
6	Kaishma Dabhi	9917586	51	SYBCOM	A	<i>Kaishma</i>
7	Anushka Jaisingh	9911432	261	FYBCOM	B	<i>Anushka</i>
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Self finance.



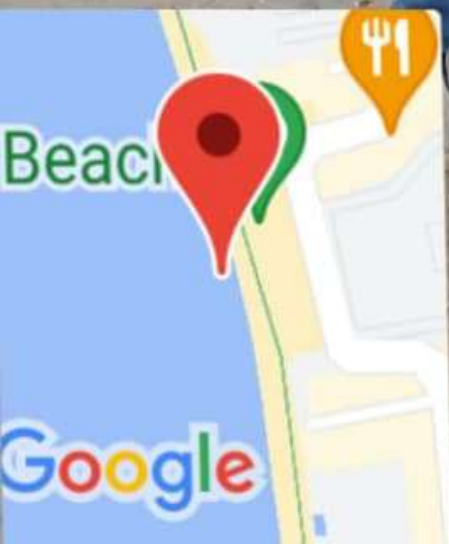
Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

COMMITTEE NAME		Relayact Club					
PROF INCHARGE		Dr. Rupa Shah					
EVENT NAME		Cleanathon					
EVENT DATE & DAY		10th Sept 2022, Saturday					
EVENT TIMINGS		7:00 am to 11:00 am					
Sr. No.	Name	ID card no.	Roll No.	Class	Div	Sign	
1	Christopher Dsouza	9917058	124	SYBMS	B	<i>Christopher</i>	
2	Aryan Kamble		38	SYBBI	A	<i>Aryan K</i>	
3	Urnati Gupta	9912878	14	TYBFM	A	<i>Urnati</i>	
4	Jainit Jyoti	9911862	10	TYBFM	A	<i>Jainit</i>	
5	Vinit Garg	9917184	75	SYBMS	B	<i>Vinit</i>	
6	Mouka Suthar	9925202	46	FYBSCIT	A	<i>Mouka</i>	
7	Hemant Patil	9917323	79	SYBAF	B	<i>Hemant</i>	
8	Bhoomi Makwana	9926556	53	FYBSCIT	A	<i>Bhoomi</i>	
9	Aaron Dial	9911258	113	TYBMS	B	<i>Aaron</i>	
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GPS Map Camera



Mumbai, Maharashtra, India

Juhu Beach, 3RWG+WGP, Airport Area,

Juhu, Mumbai, Maharashtra 400049, India

Lat 19.097045°

Long 72.82611°

10/09/22 08:31 AM GMT +05:30



Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

239

R.S.Campus, S.V. Road
Malad (W), Mumbai – 400 064
Tel.No. 022-4520 7766
www.sarafcollege.org.in
gsgc@rajasthani.org.in

Notice

Date:14/09/2022

GREEN INITIATIVE COMMITTEE

Year: 2022-23

We invite you to participate in "International Coastal Cleanup – Beach Cleaning "held by 'Green Initiative committee' in association with IQAC.

We're all well know that the condition of beaches are really bad after Ganesh chaturthi so we have come up with a mission to contribute in making beaches go back to their previous conditions we need your help to do the same, so we should come together support our society.

The Beach Clean-Up was one such avenue for students, starting from 7am to 11am on 17th September, 2022.

Collaborating with outside Agency: My Green Society in association with Indian Coast Guard

Reporting Time: 6.45 am

Venue: Aksa Beach, Marve Road, Malad (W)

For any query Contact Committee Secretary

Kashish Verma: 8104796674

Sahil Rangre: 9607127105

Sahil Kadam: 8356868155

Dr Anil Dhimdhime	Dr. Seema Agarwal	CA. Gurunathan Pillai	Dr. Lipi Mutherjee	Dr. Ashwat Desai
Convener	Vice Principal- B.Com	Vice Principal- B.Com	Vice Principal- SFD	I/C Principal

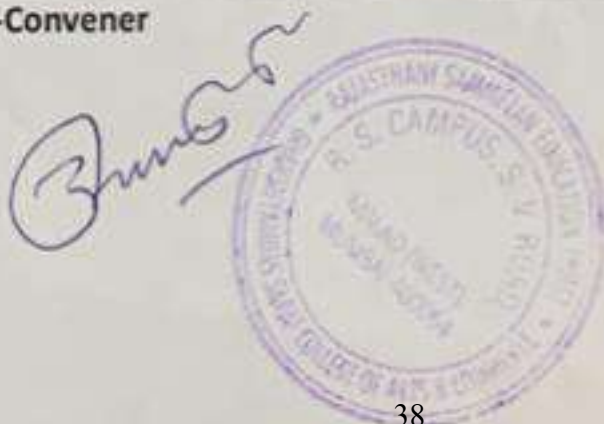


Ghanshyamdas Saraf
college of arts & commerce
 EDUCATION EMPOWERS

Organising Committee: GREEN INITIATIVE COMMITTEE

Sr no.	Description	Remarks
1	Name of the Event	INTERNATIONAL COASTAL CLEANUP - BEACH CLEANING
2	Date of Event	17 th September 2022, Saturday
3	Timing of the Event	7: 00 am - 11:00 am
4	Activity A. In Campus B. Beyond Campus Activity	Beyond Campus Activity
5	Venue	Aksa Beach, Malad West
6	Purpose/Objective of the activity	To keep our environment green and clean
7	Teacher In-charge	Prof. Dr. Anil Dhimdhome, Prof. Jyoti Sonpal, Prof. Prasad Annareddy, Prof. Yogita Naik
8	Number of Participants	13
9	Organizing Committee	MY GREEN SOCIETY
10	Collaborating Outside Agency/ Person	My Green Society in association with Indian Coast Guard
11	Brief Report/ Programme Outcome	13 volunteers from Green Initiative committee have done the beach cleaning activity on 17 th September at Aksa Beach in association with My Green Society Foundation in collaboration with Indian Coast Guard & local BMC authorities.
12	Other Specify	Breakfast for volunteers provided by the outside agency MY GREEN SOCIETY and travel expenses by Green Initiative Committee

Dr. Anil Dhimdhome-Convener





Mumbai, Maharashtra, India
5QFV+5R8, Mumbai, Maharashtra 400061, India
Lat 19.172427°
Long 72.794655°
17/09/22 07:26 AM GMT +05:30



Internal Quality Assurance Cell (IQAC)
Activity/ Event Report 2022-2023
Organising Committee: NCC

Sr no.	Description	Remarks
1	Name of the Event	Swachhta campaign
2	Date of Event	9th January, 2023
3	Timing of the Event	7:00-10:00 HRS
4	Activity A. On Campus B. Beyond Campus Activity	The activity was held beyond campus.
5	Venue	Swami Vivekananda Rd, Mandlik Nagar, Sunder Nagar, Malad West.
6	Purpose/Objective of the activity	To conduct cleaning campaign.
7	Teacher In-charge	Lt. Preeti Jha Prof. Srishti Shetty Prof. Lokesh Gupta
8	Number of Participants	35 cadets
9	Organizing Committee	NCC
10	Collaborating Outside Agency/ Person	NIL
11	Brief Report/ Programme Outcome	Cadets of Ghanshyamdas Saraf College conducted a Swachhta



		campaign near the college area. The aim of the event was to clean surrounding areas. The cadets picked up plastic waste, bits of wrappers and dry leaves. Hand gloves were also used for cleaning. The event was successful as cadets participated enthusiastically in the campaign.
12	Other Specify	NIL

Lt. Preeti Jha.

(Convenor)

Preeti

Lt Preeti Jha

Associate NCC Officer

8 MAH Cms Bn. NCC

Ghanshyamdas Saraf College.

Malad (West)



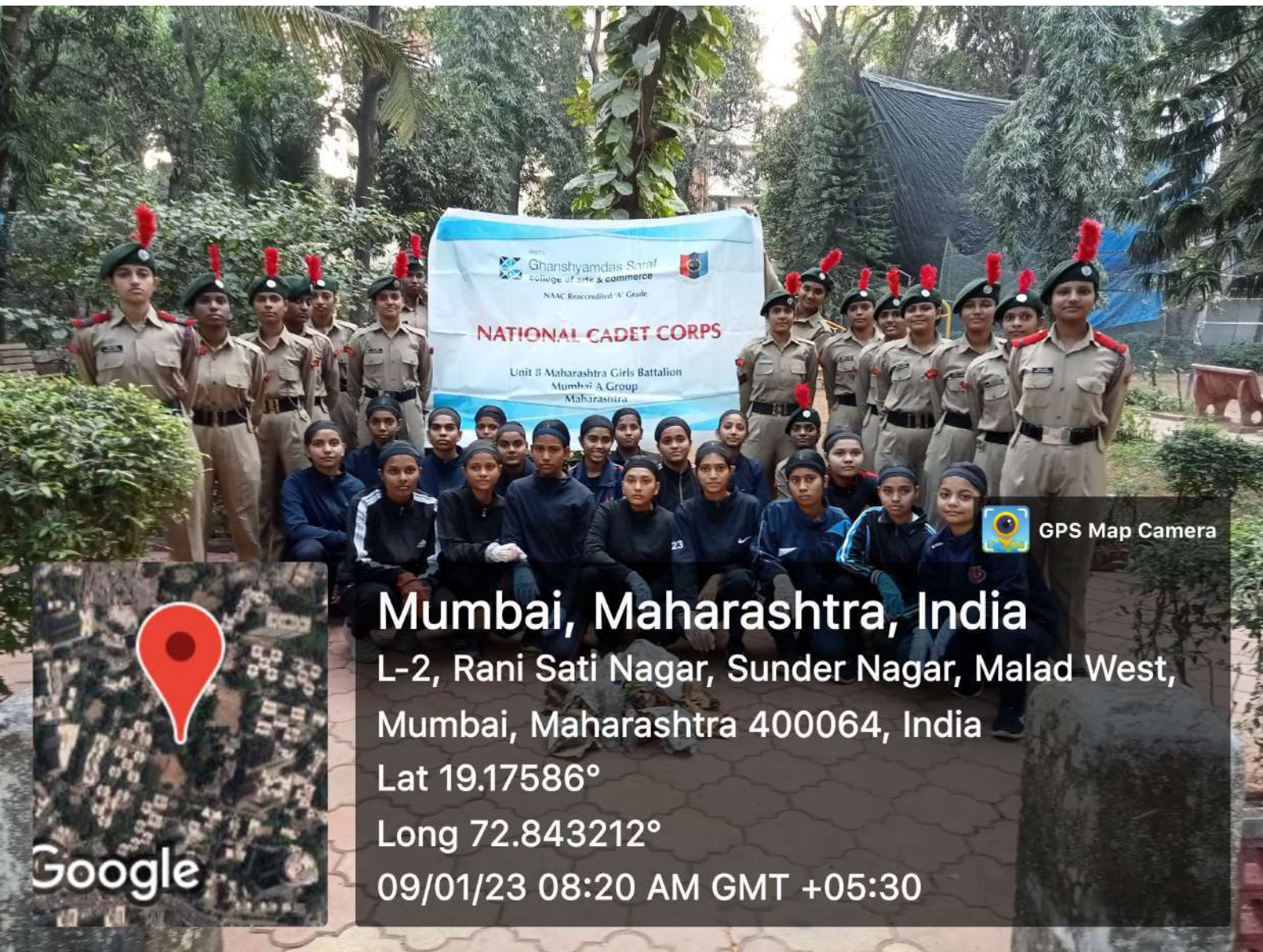


Gharisnyamdas Saraf
College of arts & commerce
EDUCATION EMPOWERERS

COMMITTEE NAME	NATIONAL CADET CORPS					
PROF. INCHARGE	Lt. Preeti Jha / Smriti Shetty					
EVENT NAME	SWACHHTA CAMPAIGN					
EVENT DATE & DAY	9 th Jan 2023					
EVENT TIMINGS	07AM to 10AM					
SIGNATURE OF THE PROF. INCHARGE						
SR. NO	NAME OF THE STUDENTS	ID CARD NO.	ROLL NO.	CLASS	DIV	SIGN
1	SUD. Prachi Yadav	9918082	134	SYBCAF	B	
2	JUD. Ishita Sharma	110570	47	SYBBI	A	
3	CSM. Anu Chaudhary	9917619	73	SYBMS	B	
4	SBT. Sakshi Singh	9917210	935	SYBCOM	G	
5	CDT. Madhu Noud	9917321	77	SYBCOM	A	
6	CDT. Ragini Yadav	9918795	560	SYBCOM	D	
7	CDT. Sunaina Gupta	9917962	100	SYBCOM	A	
8	CDT. Anshika Prajapati	9913637	344	SYBCOM	C	
9	CDT. Aloha Maurya	9916968	265	SYBCOM	B	
10	CDT. Bindu Rana	9917515	833	SYBCOM	F	
11	CDT. Rinku Ram	9917186	180	SYBCOM	B	
12	CDT. Pooja Vishwanath	9920060	336	SYBCOM	C	
13	CDT. Sakshi Shrivastava	9918695	232	SYBCOM	B	
14	CDT. Sejal Sonawane	9919604	95	SYBBI	B	
15	CDT. Pooja Chauhan	3163205	468	SYBCOM	C	
16	CDT. Nisha Kanan	3163896	440	SYBCOM	C	
17	CDT. Anisha Inole	3033730	303	SYBCOM	B	
18	CDT. Rajal Yadav	3304379	62	SYBAF		
19	CDT. Archi Joshi	9924887	234	SYBCOM	B	
20	CDT. Sakshi Tiwari	9925511	105	SYBMS	B	
21	CDT. Sakshi Sakunde	9924408	491	SYBCOM	D	



SR.NO	NAME OF THE STUDENTS	ID CARD NO.	ROLLNO.	CLASS	DIV	SIGN
22	cdt. Kajal Saw	9925922	905	FYBcom	G	Kajal
23	cdt. Riya Sawant	9924492	497	FYBcom	D	Riya
24	cdt. Priyanshu Jha	9924520	33	FYBMS	A	Priya
25	cdt. Rani Gupta	9926345	36	FYBAF	A	Rani.G
26	cdt. Sushma Yadav	9924468	721	FYBcom	E	S.Yadav
27	cdt. Sushmita Yadav	9925993	122	FYBBS	B	Sushmita
28	cdt. Janvi Bhorati	9924726	4	FYBBS	A	Janvi.K
29	cdt. Anehal Rai	9925749	81	FYBMS	B	Anchal.R
30	cdt. Abhineta Singh	9924696	276	FYBcom	C	Abhineta
31	cdt. Jyoti Kacher	9926275	808	FYBcom	F	Jyoti
32	cdt. Dimpal Inhogar	9924800	1st	FYBcom	B	Dimpal.G.
33	cdt. Shyali Belapurkar	9925986	762	FYBcom	F	shyali
34	cdt. Rinka Chauresiya	9926181	12	FYBBS	A	Rinka
35	cdt. Sakshi Yadav	9926296	957	FYBcom	G	S.Yadav
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Mumbai, Maharashtra, India

L-2, Rani Sati Nagar, Sunder Nagar, Malad West,
Mumbai, Maharashtra 400064, India

Lat 19.17586°

Long 72.843212°

09/01/23 08:20 AM GMT +05:30



Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

Organising Committee: NSS UNIT

Sr no.	Description	Remarks
1	Name of the Event	TREE PLANTATION
2	Date of Event	30 th January 2023
3	Timing of the Event	10:00 am – 12:00 noon
4	A. In Campus B. Beyond Campus Activity	The activity was held Beyond Campus.
5	Venue	Punarvas School Ground
6	Purpose/Objective of the activity	Each one must know about different types of plant and getting young children thinking about environmental conservation early.
7	Teacher In-charge	Prof. Rajkumar Jaiswal, Prof. Yogita Mahimkar, Prof. Nikita Rastogi
8	Number of Participants	26
9	Organizing Committee	NNS UNIT OF GSCC
10	Collaborating Outside	PUNARVAS SCHOOL
11	Brief Report/ Programme Outcome	Our volunteers planted variety of different plants with Punarvas students in their school ground. Our volunteers coordinated with them and learnt technique of tree plantation and all the students and volunteers learnt the importance of environmental conservation.
12	Other Specify	-----

SPH
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NSS P.O.



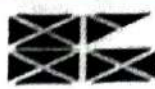


Ghanshyamdas Saraf
College of Arts & Commerce
EDUCATION EMPOWERS

B.Com

NAME OF THE COMMITTEE		<u>NSS UNIT</u>					
PROF. INCHARGE		Rajkumar Jaiswal / Yogita Mohinkar / Nikita Rastogi					
EVENT NAME		Tree Plantation.					
EVENT DATE & DAY		30 th January Monday					
EVENT TIMINGS		9:30 am to 1:00 pm					
SIGNATURE OF THE PROF. INCHARGE							
SR.NO	NAME OF THE STUDENTS	ID CARD NO.	ROLLNO.	CLASS	DIV	SIGN	
1	Deepanshi Gupta	9917258	661	SYBCOM	E		
2	Amit Singh	9924410	568	FYBCOM	D		
3	Pooja Rajput	9924423	474	FYBCOM	D		
4	Jain Jinesh	9924785	200	FYBCOM	B		
5	Tejas Desai	9916991	57	SYBCOM	A		
6	Aditya Yadav	9917415	974	SYBCOM	G		
7	Krunal Shetty	9925266	556	FYBCOM	D		
8	Deepak Pathak	9917486	835	SYBCOM	C		
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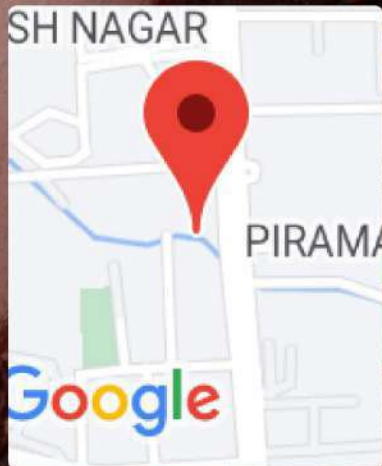


NAME OF THE COMMITTEE		NSS UNIT				
PROF.INCHARGE		Rajkumar Jaiswal / Yogita Mahinkar / Nikita Rastogi				
EVENT NAME		Tree Plantation				
EVENT DATE & DAY		30 th January, Monday				
EVENT TIMINGS		9:30 a.m to 1:00 pm				
SIGNATURE OF THE PROF.INCHARGE						
SR.NO	NAME OF THE STUDENTS	ID CARD NO.	ROLLNO.	CLASS	DIV	SIGN
1	Shejal shetty	9917613	107	SYBCAF	B	Shejal
2	Sanjana yadav	9924374	121	FYBBI	B	Sanjana
3	Neha Gupta	9912980	13	TYBSC-IT	A	Neha
4	Bhakti Tonde	9917389	101	SYBCBI	B	Bhakti Tonde
5	Jyoti Sahu	9924480	85	FYBCBI	B	Jyoti
6	Khushboo Mistry	9925460	29	FYBFM	A	Khushboo Mistry
7	Diya Agrawal	9924467	01	FYBFM	A	Diya
8	Kashish Karotra	9917516	90	SYBMS	B	Kashish
9	Rohit Kashid	9925529	45	FYBCAF	A	Rohit
10	Riya Khan	9910550	63	TYBMS	A	Riya K
11	Muskan Sinokha	9919450	144	SYBCAF	B	Muskan
12	Siddhesh Pingle	9919477	83	SYBCAF	B	Siddhesh Pingle
13	Saloni Goyal	9925335	26	FYBCAF	A	Saloni
14	Rahul Mali	9924750	55	FYBBI	A	Rahul
15	Vinod prajapati	9917540	86	SYBAF	B	Vinod
16	Jitendra Mali	9924471	54	FYBBI	A	Jitendra
17	Shivam Dubey	9910770	29	TYBAF	A	Shivam Dubey
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GPS Map Camera



Mumbai, Maharashtra, India

3rd Floor Punarwas Education Society, Swami Vivekananda Rd,
Mahesh Nagar, Goregaon West, Mumbai, Maharashtra 400104, India

Lat 19.170333°

Long 72.844959°

30/01/23 11:46 AM GMT +05:30

2021 – 2022

Clean India, Green India Campaign

NCC Cadets made a video presentation on 'Clean India, Green India' which includes various activities such as plogging, tree plantation, swacchata , etc. To keep people aware of taking care and maintaining our beautiful environment. It was held on 04th June 2021.



Plogging

Plogging activity is the one where a person picks up the garbage while jogging.



World Environment Day

NCC Cadets did tree plantation at their respective places on 5th June, 2021. And also a video was made regarding the same. Article was also written. It was later on shared on social media platforms.



Cleanliness drive

NSS volunteers organised cleanliness drive on 26th June, 2021 on occasion of “Vat Purnima”. Volunteers cleaned the nearby areas of the trees.



International Plastic Bag Free Day

NCC Cadets made banners and posters, Articles, and also video presentation. The presentation included the contents - Why do we use plastic?, Alternatives of Plastic bags, a easy and good method of making paper bags, opportunities and advantages earned, etc. Overall cadets had put in a great effort and also shared their work on social media platforms; so that majority of people can see and learn to avoid use of plastics and contribute in the 'Free from plastic pollution' Movement. Activity held on 03rd July, 2021



World Nature Conservation Day

NCC Cadets prepared speech and video presentations, made banners and posters, also wrote wonderful articles and poems by themselves, and with the help of various social media platform platforms shared their creative work with others. Activity conducted on 28th July, 2021. In this way, cadets contributed in creating awareness for conserving nature.



Clean India Campaign

NCC Cadets created awareness through posters, banners, articles and poems. Campaign conducted on 29th October, 2021



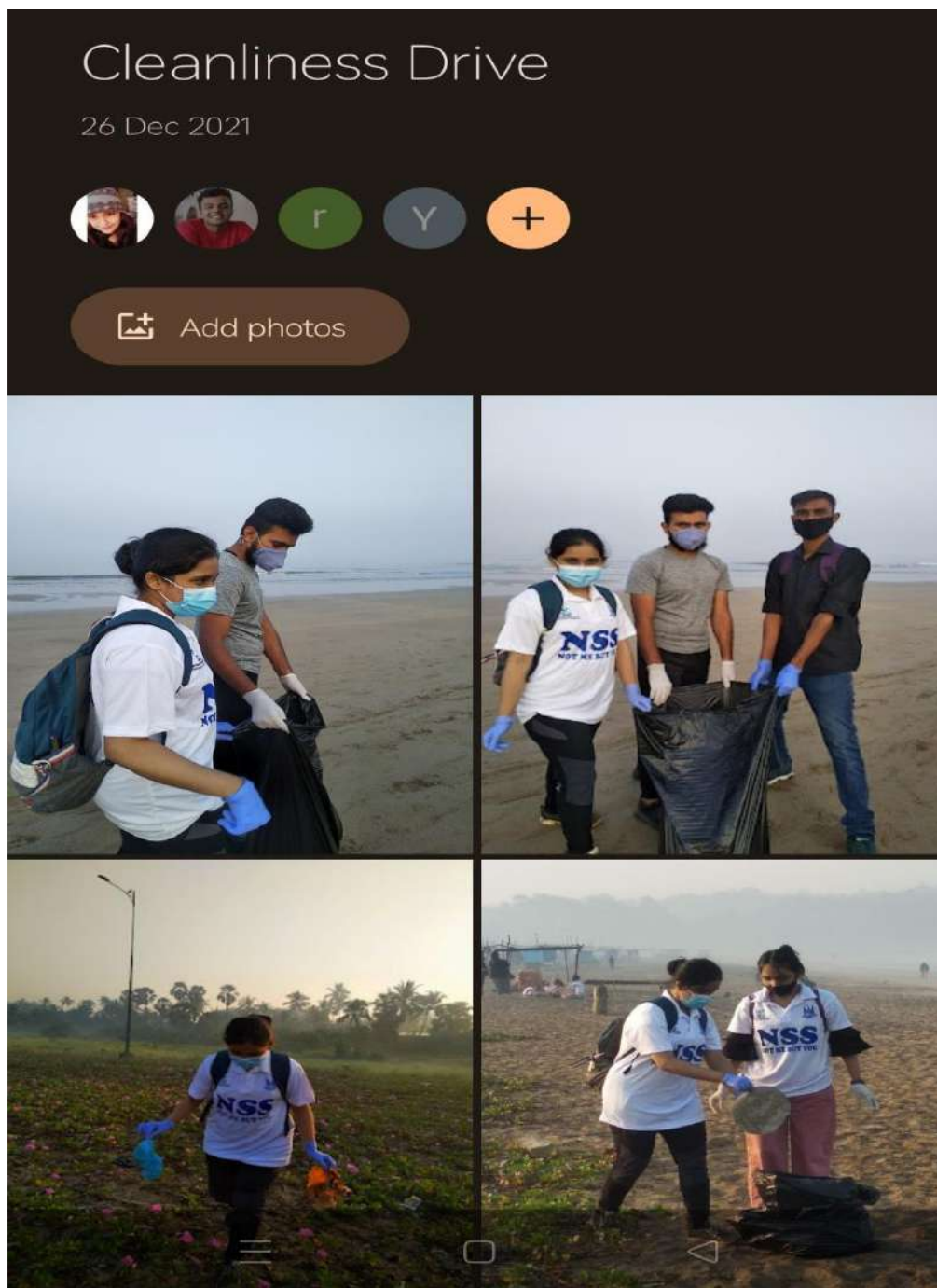
Beach Cleaning Drive

NCC Cadets conducted drive at Aksa beach, Madh on 5th December, 2021



Beach Cleaning

NSS volunteers took an initiative towards the nature by taking a small step by cleaning Aksa beach on 26th December, 2021



Social Activity for Elimination of use of Plastic

NCC Cadets initiated an action to aware local shopkeepers to avoid using plastic bags by offering them newspaper bags and explaining why newspaper bags are better than plastic bags and also how paper bags are more environment friendly.



2020 – 2021

Tree Plantation Drive

On account of Mahatma Gandhi Jayanti, a Tree Plantation Drive was organized from 2nd October to 9th October 2020, in which 33 NSS volunteers staying in their native place planted saplings of indigenous trees.



Tree Plantation

On 4th March 2021, Members of DLLE planted saplings of Neem, Rose, Tulsi, Mango, lily and many more at Students Place such as on their house, Balcony or Garden in their Soccity. The moto of the event was "Plant trees and save environment" and make the students aware of the importance of a forestation.



Water Flood Majhi Vasundhara

The Department of Lifelong Learning and Extension Program (DLLE) has organized Webinar On Water Flood Majhi Vasundhara on 9th March 2021. The Webinar was addressed by Guest Speaker Mr Subhajit Mukherjee Ambassador Majhi Vasundhara AAbhiyan. 100 Students were attended the webinar. The objective of the webinar was to aware students about Scarcity of water in recent years and to develop a habit of conserving water by various innovative water conserving techniques.



Water Flood Majhi Vasundara Webinar



2019 – 2020

Tree Plantation

Rotaract club of College organised Tree Plantation Drive on 7th July, 2019. The event took place at Donagiri police headquarters (Goregaon West) with our parents Rotary- Rotary Club of Mumbai West Cost. The sole purpose of this event is to spread awareness and plant more trees. members planted 130 saplings successfully with the help of Other club and rotary members. The Event rounded up with Deputy commissioner's speech. Participants gathered knowledge about a different type of trees and how to take care of them.



Spar Clean

Rotaract Club of College organised Event Spar Clean on 13th September, 2019. The event took place at Girgaon chawpaty. Around 45 Rotaractors and Non Rotaractors participated.



Cleanliness Drive

“Cleanliness is Godliness” – Spreading the message of cleanliness, twenty students of DLLE participated in DNA’s eco Ganesha clean up drive at Juhu Beach on September 13, 2019. They enthusiastically lent a hand to BMC workers in their endeavour to clean up the beach a day after the Ganesh Visarjan. Armed with gloves and masks, they demonstrated how citizens can contribute to the society by doing their bit for the environment. Pratik Ozar, a third year student of Saraf college gave an interview for the DNA paper in which he said that “Beach clean up is a social cause.



Clean Versova

To promote No Plastic Movement Rotract Club of College organised beach cleanliness Drive on 14th December 2019 in collaboration with Rotract District 3141





Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS



Internal Quality Assurance Cell (IQAC)

Green and Clean Campus Policy

INTERNAL QUALITY ASSURANCE CELL



Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

R.S.Campus, S.V. Road
Malad (W), Mumbai – 400 064
Tel.No. 022-4520 7766
www.sarafcollege.org.in

gsgc@rajasthani.org.in

GREEN AND CLEAN CAMPUS POLICY

OBJECTIVE

The institution have designed Green and Clean Campus Policy to achieve following objectives:

- To maintain a clean and hygienic learning environment in the classrooms, library staff rooms and office.
- To have safe and hygienic washroom facilities in the campus premises.
- To maintain a clean corridor, lifts and open spaces.
- To educate students and staff for maintaining cleanliness across the campus.
- To maintain green campus.
- To maintain plants and naming of plants at backside of College campus.

THE POLICIES

1. Classrooms, Computer Lab and Library:

- Classrooms, Laboratories and libraries should be provided with a dustbin for dry waste.
- Each classroom, laboratories and library should be cleaned every day.



INTERNAL QUALITY ASSURANCE CELL

- Students are not allowed to litter in the classroom, laboratories and library.
- Eating and drinking in the library and laboratory is strictly prohibited
- Separate space will be provided to Students for keeping their bags in the library and computer Lab.

2. Staff room and Administrative office:

- Lockers are provided to each faculty member to keep their belongings, books and other teaching materials.
- Separate cabinets are provided to Committee in charges to keep all their documents and files.
- Faculty members should use a dustbin to dispose of waste.
- Used disposable cups and other packaging are not allowed on the tables.
- Students' assignments and projects should be stocked properly in storage cupboards without creating hindrance to other staff members.
- Staffroom and office should be cleaned every day.

3. Washroom :

- Regular cleaning schedule of washrooms maintained by housekeeping staff.
- Each floor has dedicated staff for washroom cleaning.
- Dustbins are provided in all washrooms.
- Students and staff should be educated about the usage of washrooms and disposal systems.



INTERNAL QUALITY ASSURANCE CELL

4. Lifts, corridors, canteen and Garden Area, Turf (Sports) ground :

- Regular cleaning by housekeeping staff of lifts, corridors, canteen and open areas.
- Students and staff members are not allowed to litter on the corridors, open areas and lifts.
- Green Initiatives Cell is instructed to take care of Garden area and awareness about green campus.
- Hygiene and wellbeing Committee will be formed to take care the hygiene and wellbeing in campus.
- Wet and dry dustbins are provided near water facilities.
- The institution provides clean drinking water which is maintained by outsourced Annual Maintenance Contract.
- Students are educated not to waste food and dispose of wet and dry waste separately in the canteen and near water facilities.

Hence, the institution aspires to maintain a Green, clean and hygienic learning and developmental environment for students and teachers by implementing the Green and Clean Campus policy.


IQAC Coordinator
Rajasthan Sammelan Education Trust's
Ghanshyamdas Saraf College of
Arts & Commerce.

INTERNAL QUALITY ASSURANCE CELL


PRINCIPAL
Rajasthan Sammelan Education Trust
Ghanshyamdas Saraf College
Of Arts & Commerce





Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS



Internal Quality Assurance Cell (IQAC)
Energy Conservation Policy



Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

INTERNAL QUALITY ASSURANCE CELL

R.S.Campus, S.V. Road
Malad (W), Mumbai – 400 064
Tel.No. 022-4520 7766
www.sarafcollege.org.in
gsgc@rajasthan.org.in

Energy Conservation Policy

OBJECTIVE

The institution has framed the policy for accomplishing the following objectives:

- To use alternative energy sources for environmental sustainability
- To educate the students and staff members on methods of saving by minimizing use of electricity.
- To create awareness among the students and staff members about the techniques of reducing energy consumption.
- To avoid wastage of energy.

GhanshyamdasSaraf College of Arts and Commerce follows sustainable environment and energy conservation practices.The campus has taken initiatives to minimize the use of electricity and is also using alternate energy source:

- Entire campus uses LED lights
- Solar panel is installed as an alternative energy source
- Students and staff members are educated on stopping wastage of energy by placing posters near switches.



INTERNAL QUALITY ASSURANCE CELL

To accomplish the objectives, the institution has following policies:

LIGHTS, AIR CONDITIONERS, FANS:

- The institution uses only LED bulbs for illuminating the facility.
- The switches are appropriately allocated to lights so that there is no unnecessary light being used.
- The switches are appropriately allocated to lights so that there is no unnecessary light being used.
- Every Class room has provision of natural light to minimize use of electric bulb.

Solar Energy:

- 16 Solar panel is installed as an alternative energy source.
- Solar energy is used according to requirement.

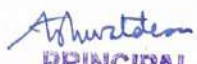
Maintenance policy:

- For Maintenances of these services MOUS and AMCs are done with Outside agencies.
- For any complain or service requirements, the staff members can mail 00to help desk BMS Department on email id. bmssupport@rajasthani.org.in .
- A dedicated team of maintenance staff for electrical equipment's and fittings has been appointed under the central administration of the institution.

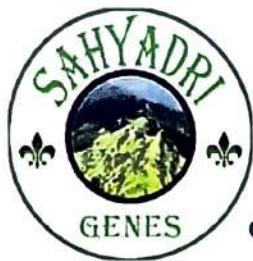
Hence, the institution aspires to minimize the usage of energy by following proper precautionary measures for Energy Conservation.


IQAC Coordinator
Rajasthani Sammelan Education Trust's
Ghanshyamdas Saraf College of
Arts & Commerce.




PRINCIPAL
Rajasthani Sammelan Education
Ghanshyamdas Saraf College
Of Arts & Commerce

INTERNAL QUALITY ASSURANCE CELL



Sahyadri Group Enriching Nature, Environment and Science

(Sahyadri GENES)

Office: 2113,C,26/A, Near Rajni Residency, Behind Rajesh Motors, Kawla Naka, kolhapur- 416003
Maharashtra State, India

Reg. No.
Maha/23616/Kop.

Phone: 0231-2537077

E-mail: sahyadrigenes@gmail.com

Date: 11-01-2023

Certificate of Energy Audit

This is to certify that, Ghanshyamdas Saraf College of Arts and Commerce, Malad, Mumbai has conducted detailed Energy Audit of their College campus and has submitted necessary data and credentials for scrutiny. The activities for awareness and measures taken to save energy by the college have been verified based on report submitted and was found to be **Satisfactory**. The efforts taken by the faculty and students towards Energy conservation and sustainability is highly appreciated and commendable.




President
Sahyadri-GENES
Kolhapur



Sahyadri Group Enriching Nature, Environment and Science

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Certificate of Green Audit

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(Sahyadri GENES)

Office: 2113,C,26/A, Near Rajni Residency, Behind Rajesh Motors, Kawla Naka, Kolhapur- 416003

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Date: 17-01-2024

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for President
Sahyadri-GENES
Kolhapur

Green Audit Report
For
2019-2020
Ghanshyamdas Saraf
College of Arts and
Commerce, Malad West ,
Mumbai

Report by – Dr. Rajashekhar O. Patil

M.A, M.A, LL.M, PGDBM, Ph.D.

Date of Audit : 06/03/2020 and 07/03/2020



Green Audit Report 2019-2020

Introduction:

In recent times, the Green Audit of an institution has become a paramount for self assessment of the institution which reflects the role of the institution in mitigating the present environmental problems.

Green audit can be a useful tool for an institute to examine how and where they are using the resources or most of the energy or water; the college can then improve and consider how to implement changes and make savings.

This report serves to highlight the accomplishments of Ghanshyamdas Saraf College and to make recommendations for maintaining a sustainable environment in the college. The college conducted the Internal Green Audit in Academic Year 2019-2020 and strives to maintain eco- friendly atmosphere in the campus:

The activities taken by the college to make the campus eco- friendly:

- ❖ To create more awareness about environment the “Environmental Quiz Competition” was organized by Green Initiative Committee on 17th December 2019.
- ❖ In Compliance with the recommendation given in Green Audit Report of 2018-19 , The College has taken following initiatives:
 - E – Waste Box installation for disposal of Electronic waste items.
 - Sanitary Napkin Wending Machine has been installed in washrooms for Girl students.
 - In canteen area of college campus, a Plastic Crusher Machine has been installed for Recycling of plastic.




Suggestion/ Recommendations:

Following are the recommendations given by the committee:

- ❖ Green Initiative Committee to be renamed as **"Nature Club"**, which is based on **United Nations Environmental Programme(UNEP)** UNEP is at **Global Level** whereas our **Nature Club** is at **Local Level**.
- ❖ Separate **"Human Watch Cell"** should to be incorporated to make the students aware about human rights issues at Local Level. **The Awareness programs should be based on Universal Declaration of Human Rights.**
- ❖ Disaster is very common in each and every corner of the world. Regarding this U.N.O. has made some necessary recommendation for member countries. Government of India, Maharashtra State Government as well as BMC has their own regulations to reduce disasters. Ghanshyamdas Saraf College has already taken measures in this direction. So if college would like to have **"Disaster Management Cell/ Aapat Bhandhav"** then it will definitely create more awareness among the students community.
- ❖ Even though Green initiative Committee is very active, it should take initiative of **"Seeds Bombing"** in the nearby Green Zone Area/ Forest Areas as a part of Monsoon Activities.

Place : Mumbai
Date: 07/03/2020


Dr. Rajashekhar O. Patil
M.A, M.A, LL. M, PGDBM, Ph.D.
(Auditor)



Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS

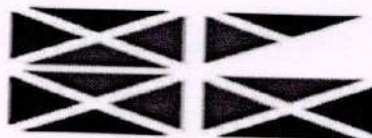


Internal Quality Assurance Cell (IQAC)

Green Audit/ Environment Audit /Energy Audit Report-
2022-2023

INTERNAL QUALITY ASSURANCE CELL

INTERNAL QUALITY ASSURANCE CELL



Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS



Internal Quality Assurance Cell (IQAC)
Green / Environment Audit Report-2022-2023

INTERNAL QUALITY ASSURANCE CELL



Green/ Environment Audit

(2022-23)



Introduction

1. Green Audit:

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments. It aims to analyze environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. The purpose of green auditing is to assess periodically the compliance of completed or on-going activities with the requirements of legislation, measures proposed in environmental policies, environmental management systems and environmental schemes or the provisions of standards and contracts.

Benefits of Green Audit:

1. Ensuring legislative compliance. Reducing environmental impacts.
 2. Reducing waste, water and energy costs.
 3. To safeguard the environment and natural resources.
 4. Empower the organization to frame a better environmental performance.
 5. It portrays good image of institution through its clean and green campus.
- Finally, it will help to build positive impression for the upcoming NAAC visit.

1.1 NAAC criteria VII Environmental Consciousness:

Green Audit is assigned to the criterion VII of NAAC. National Assessment and Accreditation Council which is a self-governing organization that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation of the institution. The intention of green audit is to upgrade the environmental condition in and around the institution. It is performed by considering some environmental parameters like water and wastewater management, energy conservation, waste management, air monitoring, etc. for making the institution more eco-friendly.

Students are the major strength of any academic institution. Practicing green actions in any educational institution will inculcate the good habit of caring nature in students. Many environmental activities like plantation and nurturing saplings and trees, cleanliness drives, bird watching camp, no vehicle day, rain water harvesting visits to ecologically important places through green clubs will make the student a good citizen of country.



College Photo from Road



Ghanshyamdas Saraf College of Arts and Commerce was established in 1983. This college offers a wide plethora of course ranging from traditional B. Com to more contemporary degree courses like BCA, BCBA, BMS, BFM, BSc. IT, and post graduate courses in M.Com (Accounting & Management).



Name of the Institute : Ghanshyamdas Saraf College of Arts and Commerce
Establishment : 1983
Pioneers : Rajasthani Sammelan's Education Trust

This college offers a wide plethora of course ranging from traditional B. Com to more contemporary degree courses like BCA, BCBA, BBA, BFM, BSc. IT, and post graduate courses in M.Com (Accounting & Management). The college is affiliated to University of Mumbai. Approved by state Government of Maharashtra. A Proper Care Is Taken to Provide Basic Amenities for The Students & The Staff Members.

The Facilities are as Follows -

- **Classroom 33:** spacious classrooms with necessary furniture, Whiteboards & Projector in building of the college.
- **Library:** The Library of The College Is Centralized with More Than 53000 Books & 01 Reading Room.
- **Laboratory 1:** We are having spacious 2 laboratories with 176 Computers with Battery backup, Printer, Scanner, LCD projectors, equipment's & furniture etc.
- **Administrative Office:** The spacious LAN computerized administrative office with modern technology & with necessary facilities.
- **Toilet:** We have total 6 storage building on alternate floors we have Girls & Boys toilets.



METHODOLOGY

The college has conducted Green/ Environment Audit in the year 2022-23 on 9th and 10th January 2023.

The audit was carried out in three phases.

a. Questionnaire survey:

It includes administrative issues associated with the planning of audit, selecting the personnel for the audit team, preparing the audit protocol used by organization, obtaining background information, etc. The scope of the audit was defined at this step. It was decided that the information related to Water and Waste water management, Energy conservation, Green belt, Carbon inventory, Solid waste management, Hazardous waste management, Air and noise quality status, activities of nature club, etc. should be gathered for the audit purpose. For collecting data related to these different areas, specific questionnaires were prepared.

b. On-site visit and observations:

The data related to above mentioned areas was collected by visiting each and every facility of college campus. The questionnaires were filled up according to the present situation. Photographic documentation was also done with the help of sophisticated camera.

c. Data analysis:

After collection of secondary data, the reviews related to each environmental factor were taken by the green audit team. The data was tabulated, analyzed and graphs were prepared using computer. Depending upon the observations and data collected, interpretations were made. The lacunas and good practices were documented. The Environmental Management Plan (EMP) was prepared for the next academic year in order to have better environmental sensitization. Finally, all the information was compiled in the form of Green Audit Report.



Environmental Auditing Process



Planning



Choosing Audit Team



Collection of Data



Analyzing Results of Audit



Evaluating Audit



2. Water and Waste water Audit:

Water audit can be defined as a qualitative and quantitative analysis of water consumption to identify means of reducing, reusing and recycling of water. A water audit is a technique or method which makes possible to identify ways of conserving water by determining any inefficiencies in the system of water distribution. The measurement of water losses due to different uses in the system or any utility is essential to implement water conservation measures in such an establishment.

Water accounting is the process of communicating water resources related information and the services generated from consumptive use in a geographical domain, such as a river basin, a country or a land use class; to users such as policy makers, water authorities, managers, etc.

Importance of Water Audit:

- Water audit improves the knowledge and documentation of the distribution system.
- Identifies the problem and risk areas and a better understanding of what is happening to the water after it leaves the source point.
- Leads to reduced water losses.
- Improved financial performance.
- Improved reliability of supply system.
- Efficient use of existing supplies.
- Better safeguard to public health and property and reduced legal liability. Reduced disruption, thereby improving level of service to customers.
- Large potential cost savings that can be achieved by water harvesting, through the recycling of water and the use of rain water.

It is observed that a number of factors like climate, culture, food habits, work and working conditions, level and type of development, and physiology determine the requirement of water. The community which has a population between 20,000 to 100,000 requires 100 to 150 liters per person (capita) per day. As per the standards provided by WHO Regional office for South East Asia colleges requires 2 liters per student; 10-15 liters per student if water-flushed toilets.



2.1 Water Audit:

Water usage can be defined as water used for all activities which are carried out on campus from different water sources. This includes usage in residential girls hostel academic buildings, on campus and on grounds. Wastewater is referred as the water which is transported off the campus. The wastewater includes sewerage, residence, hall waters used in cooking, showering, clothes washing as well as wastewater from chemical and biological laboratories which ultimately going down in sink or drainage system.

Water Audit Process:

Measurements

Calculations

Audit Observations

Report

Discussion

Planning & Process

Steps that can be taken

Zeroing in on conservation

Implementation

Finalization



2.2 Overall water consumption in the RSET Campus

From the data collected for water audit of Ghanshyamdas Saraf College of Arts and Commerce SV road Malad (w) Mumbai the water distribution and water consumption pattern is noticed as follow. The college is having main building for administrative work as well for teaching work. For the water audit purpose we categorized the college campus area

In water audit study the daily water consumption is found to be as follows.

Daily water consumption

Daily water consumption by institute building								
							Water	
							Loss	
						Wash	During	
Site	Toilet		Kitchen	Garden	Drinking	Basin	Filling	Total
Total use of								
Water								
(liters/day)	867		45	265	225	78	20	1500
Percentage	32.34		3	20	15	5	1.4	100

The total water consumption per day for all buildings is found to be 1500 lit/day



3. Total Electric Energy Audit:

An electricity audit is simply an audit or calculation of how much electricity you are using in your home and of where that electricity is going.

An energy audit is an analysis of a facility, indicating how and where that facility can reduce energy consumption and save energy costs. Its insight to energy efficiency and conservation can lead to significant savings on the company's utility.

Importance of Electric energy Audit:

- The audit will not only inform you of opportunities but provide you with financial analysis. This will enable prioritization based on financial benefit and return on investment.
- Provide you with solid, easy to understand technical information regarding the proposed energy conservation measures.
- A good quality audit will analyze your historical energy use and find potential issues using statistical methods.
- Provide you with emissions analysis to help you understand the benefits of your decisions from an environmental standpoint.
- Understand where energy is used and which areas are worth focusing on the most (energyhogs).
- Provide you with benchmark information to help you understand your energy use performance compared to others in your field and area.



Electric energy Audit

Class Number	LED		Regular Light			Fan	Motor		Computer
	12 watt	36 watt	20 watt	28 watt	36 watt	60 watt	1 HP	2 HP	60 watt
B.des 1	-	9	-	-	-	6	-	1	1
B.des 2	-	4	-	-	-	3	-	-	1
B.des 3	-	4	-	-	-	4	-	-	1
B.des 4	-	4	-	-	-	4	-	-	1
Staff Room	-	1	-	-	-	1	-	-	-
Library	4	-	-	-	-	1	-	-	1
Admin Office	-	2	3	-	4	6	-	-	30
Passage	-	2	-	-	-	2	-	-	-
Unit	4	26	3	-	4	27	-	1	35
Total Watts	48	936	60	-	144	1620	-	1119	2100
Total Units	LED Unit = 984 W							Regular Light Unit = 6027 W	

Other Electric Equipment's		
Names	Quantity	Total
Printer 240 W	2	480
Projector 210 W	7	1470
Xerox 300 W	1	300

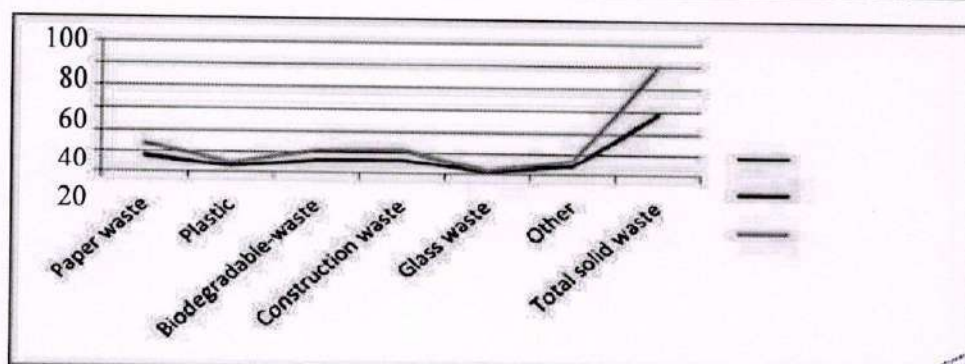


4. Solid Waste Audit:

Solid waste management is becoming a major public health and environmental concern world over. Improper solid waste disposal leads to substantial negative environmental impacts e.g., pollution of air, soil, water and generation of greenhouse gases from landfills. Many insect borne diseases are spread through garbage. Therefore, it is necessary to manage the solid waste appropriately to reduce the load on waste management system. The intention of this inventory is to find out the quantity, volume, type and current management practice of solid waste generation in Ghanshyamdas Saraf College of Arts and Commerce. This survey related to solid waste generation would be helpful for making the college more environments friendly. Generation of solid waste in Ghanshyamdas Saraf College of Arts and Commerce are as follows:

Category wise solid waste generation at Ghanshyamdas Saraf College of Arts and Commerce

Category	Paper	Plastic	Biodegrada	Construc	Glass	Other	Total
of waste	waste		ble	tion	waste		Solid
			Waste	Waste			Waste
Quantity kg/month	16.3	5.8	12.6	13.2	1.9	8.0	57.8
Percentage (%)	28.20	10.03	21.79	22.83	3.28	13.84	100

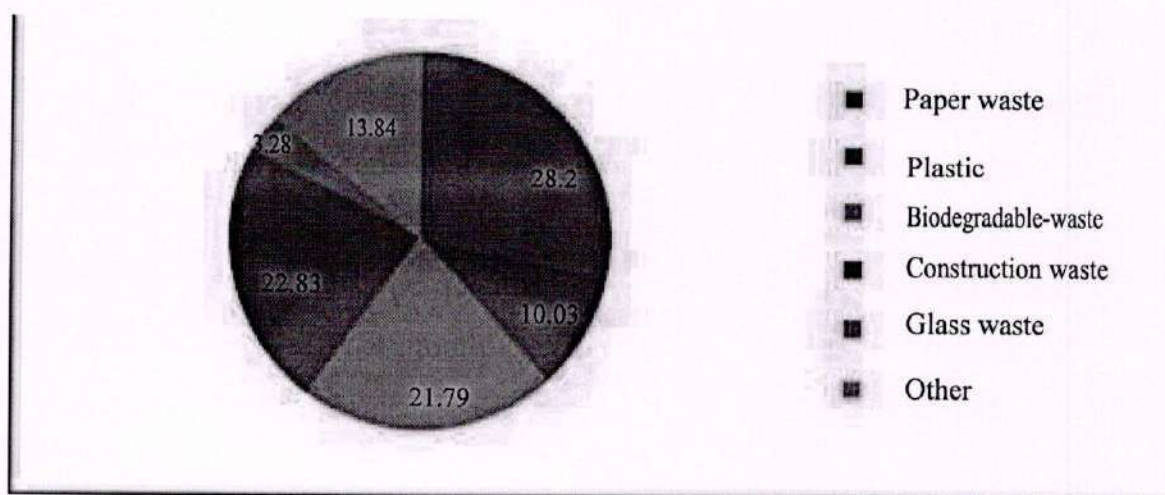


Category wise solid waste generation at GSCC



The average amount of solid waste generated per month in Ghanshyamdas Saraf College of Arts and Commerce was 57.8 kg/month. On the basis of observations the highest quantity of solid waste generated is paper waste which is about 16.3 kg/month and construction waste is about 12.6 kg/month respectively. The examination department generated paper waste in large quantity in the college. The glass waste is produced in minimum quantity i.e. 1.9 kg/month. Besides, the above-mentioned wastes, plastic waste is generated in the form of plastic wrappers of food items, old broken chairs, old broken water tank, etc.

Category wise solid waste percentage(%)

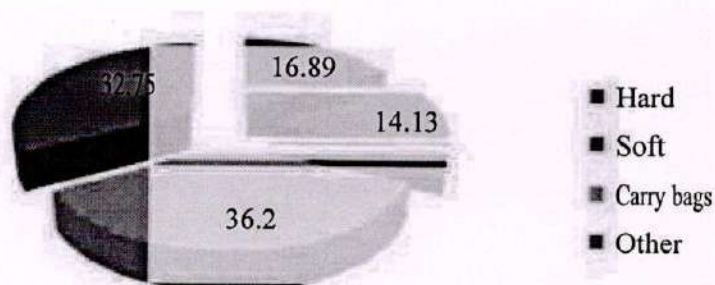


Plastic waste generation and its distribution in college campus

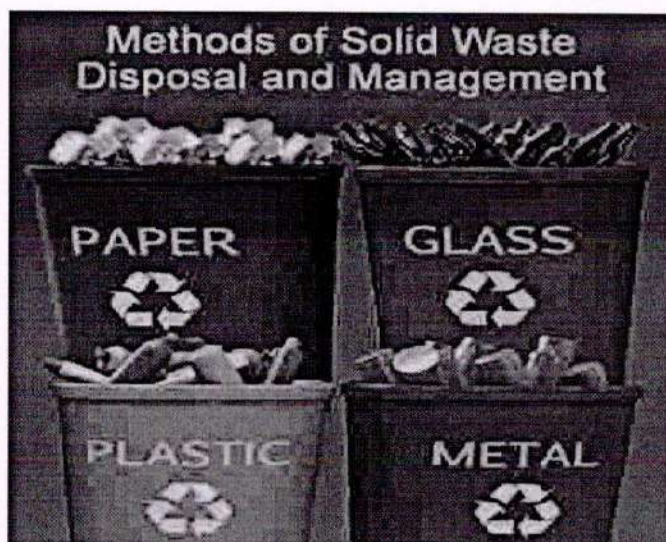
Category	Hard	Plastic kg/ month			Total
		Soft	Carry	Other	
			Bags		
Quantity	0.98	0.82	2.1	1.90	5.8
Percentage	16.89	14.13	36.20	32.75	100



Categorization of plastic waste at Ghanshyamdas Saraf College of Arts and Commerce



The graph shows that the hard plastic and carry bag waste is generated in higher amount which is 36.2% and 32.75% respectively. The soft plastic and other plastic waste also generated in the college is 14.13% and 16.89% respectively



5. Hazardous Waste Audit:

Ghanshyamdas Saraf College of Arts and Commerce is one of the well-known educational institutes' having 1111 student strength. This college caters the facility for Interior Design, Landscape & Building Site Supervisor students in their campus. No chemical hazardous waste provided.

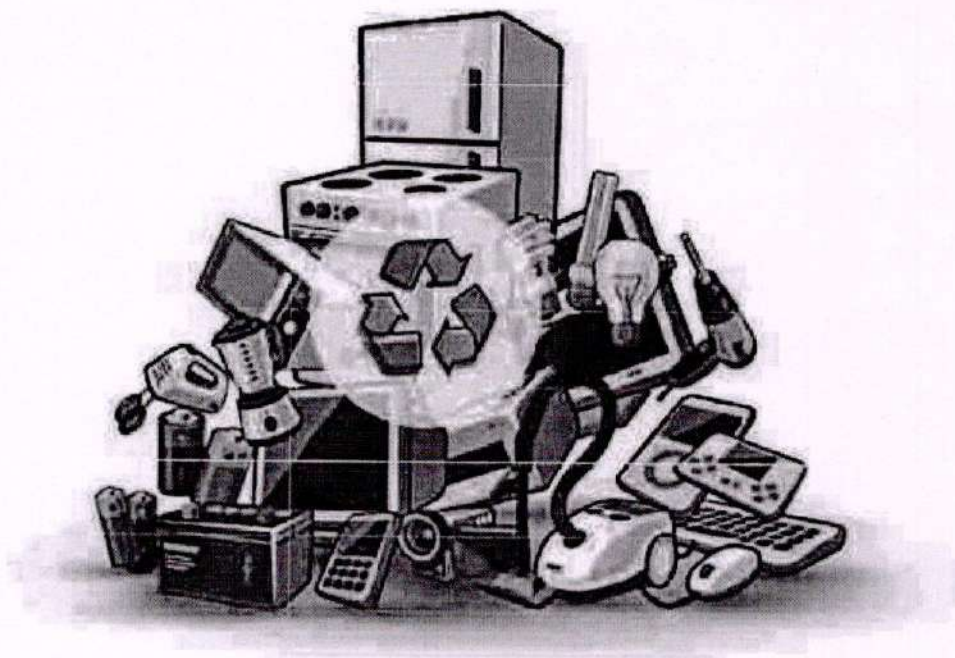
6. E-waste:

Generation of e-waste is found on every educational institute. It is observed that the E-waste generated at Ghanshyamdas Saraf College of Arts and Commerce is of Schedule II category. Computers, Printers, Laptops, Scanners, Internet Routers and Xerox machines are used for administrative work. The wire required for the connectivity also gets included in the e waste. The Rajasthani Sammelan's Trust has its own computer laboratory of 176 computers. The library uses some electronic scanners which after its use can become e-waste. We have proper disposal system for e-waste and also we have set-up e-waste collection box for the students inside the premises.



Key Observations:

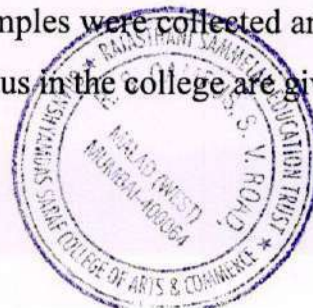
1. The average waste generated in the college is. 57.8 Kg/month
2. Highest quantity of solid waste is of paper waste 16.3 Kg/month Biodegradable waste is 12.6Kg/month.
3. Plastic waste is about 5.8 % to the total solid waste on the college campus. Some of the classrooms were found without solid waste baskets.
4. There is need of some improvements into the collection of solid waste. Solid waste is to be segregated at the source.



7. Ambient Air Quality Status:

Ambient air sampling is important part of environmental monitoring. Particulate matter and trace gases sampling were carried out on the college campus. The sampling was carried out using calibrated Handy Dust Sampler APM 821 with flow rate 1 lit/min equipped with glass fiber filter paper (size 25 mm). The sampling period was 2 hrs.

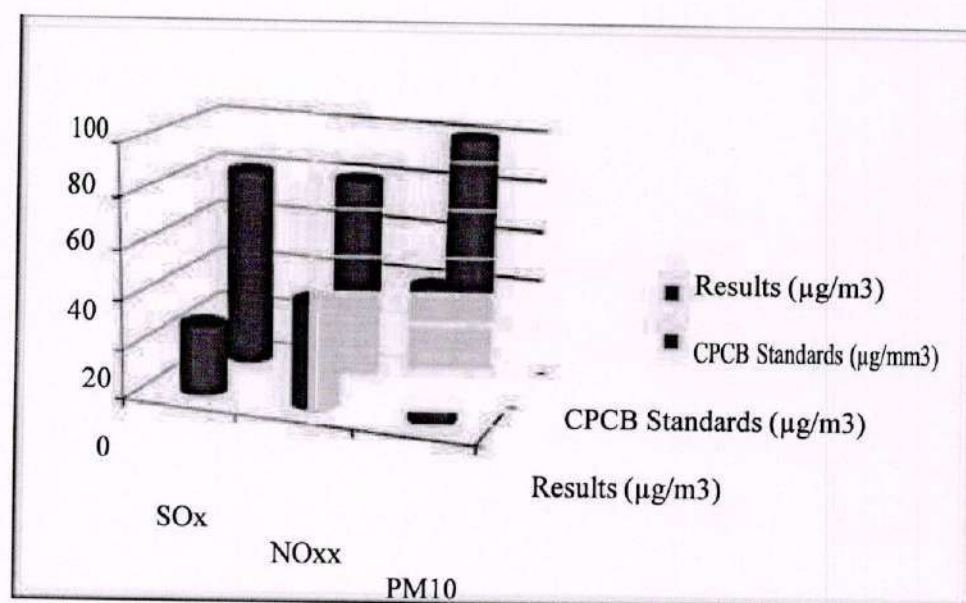
Sulphur dioxide (SO₂) and Oxides of Nitrogen (NO_x) in the air were estimated with West and Gaeke method and Jacob and Hochheisser modified method respectively. Particulate matter (PM₁₀) was measured gravimetrically. The samples were collected and analyzed in the approved laboratory. The details of air quality status in the college are given as below:



Ambient air quality status of Ghanshyamdas Saraf College of Arts and Commerce

Sr. No.	Parameters	Results ($\mu\text{g}/\text{m}^3$)	CPCB Standards
			($\mu\text{g}/\text{m}^3$)
1	Sox	28.57	80
2	NOx	43.33	80
3	PM ₁₀	53.61	100

It was observed that all the air quality parameters analyzed were within the Ambient Air Quality Standards of Central Pollution Control Board, India. The air quality is good in the college campus as well as surrounding.



Ambient air quality status of Ghanshyamdas Saraf College of Arts and Commerce



8. Ambient Noise Monitoring Status: –

Ambient noise monitoring was carried out in different areas of college campus like at college campus entry, college gate, and corridor, floor. The sampling was carried out using calibrated Sound Level Meter (AZ 8921) by logarithmic scale in Decibels (dB). The noise readings were collected in the college campus and calculated. The details of noise status in college campus are given as below:

Ambient Noise levels in Ghanshyamdas Saraf College of Arts and Commerce

Sr. No.	Site Name	Results	Standards (Day Time)
		dB (A) Leq	dB (A) Leq
1	College Campus Entry	66.21	50
2	College Gate	62.04	50
3	Corridor	60.82	50
4	Library	36.17	50

Note: - 1. All parameters expressed in dB (A) Leq.

2. Monitoring is carried during day time.

3. Day time is from 6.00 a.m. to 10.00 p.m.

It is observed from the table that the Ambient Noise levels overall in college is on higher side except ladies hostel as compared to the standards of Central Pollution Control Board for the day time.

Since the college is located adjacent of main roads and therefore, the major source of noise is automobile noise, rolling noise. The human communication and transportation are causing high level sound. It is advisable to increase the green cover in the surrounding to avoid noise.



Parking and traffic management: Parking inside the college premises and outside the college premises is strictly prohibited, but there is a special parking area allowed by the local authorities nearby the college.

Bird's diversity:

The diversity among birds is striking. Birds live in a variety of different habitats. Birds that live in different habitats will encounter different foods and different predators. Birds can be carnivores (feeding on other animals), herbivores (feeding on plants), or generalists (feeding on a variety of foods). Sparrow, crow, bulbuls, Pigeon, Cuckoo, Butterfly, etc. these species are seen regularly around the campus.

9. Details of Tree Census In College Campus:

The beginning of the 21st century brought growing concern about global warming, climate change, food security, poverty, and population growth. CO₂ is a principle component causing global warming. Atmospheric carbon dioxide levels have increased to 40% from preindustrial levels to more than 390 parts per million CO₂. On this background it is a need of time to cover the educational campuses with green cover interrelated with climate change.

The current is a present status of vegetation and carbon storage assessment of area under the Ghanshyamdas Saraf College of Arts and Commerce. In an era of global warming and climate change; carbon emission, carbon sequestration, mitigation, adaptation are the keywords in academia. Carbon sequestration is a phenomenon of converting atmospheric carbon i.e. CO₂ into other pools of carbon such as vegetation, soil, ocean etc. in various forms to mitigate global warming. It is one of the important clauses of Kyoto Protocol. Current tree census methodology has been adopted from the guidelines set by Indian Institute of Remote Sensing, Dehradun, Govt. of India.

Total number of trees enumerated on Ghanshyamdas Saraf College of Arts and Commerce: Total 25 numbers of potted plants.



CONCLUSION AND MANAGEMENT PLAN

The Sahyadri Group Enriching Nature Environment and Science, Kolhapur has conducted a Green Audit of Ghanshyamdas Saraf College of Arts and Commerce in the academic year 2022-23. Green auditing is the process of identifying and determining whether institution practices are eco-friendly and sustainable. The main objective of college to carry out green audit is to check green practices followed by college and to conduct a well formulated audit to understand where we stand on a scale of environmental soundness.

Conclusions:

From the green audit conducted by college following are some of the conclusions which can be taken for improvement of the college campus to become environment friendly college campus.

1. College takes efforts to **dispose majority waste by using proper methods.**
2. **Confidential paper waste is disposed properly.**
3. **Glass waste is to be disposed properly.**
4. Electricity consumption is more at some departments.
5. Use of **CFL** lamps in the college is minimum. Its use should be encouraged and now converted to **LED** lights.
6. Toilets and bathrooms are consuming more water.
7. Roof top rain water harvesting should be planned which is useful for filling up of tanks on campus.
8. **E-waste segregation, handling and disposal are properly done.**
9. Practice of waste segregation to be initiated.
10. Air quality on the campus is comparatively good
11. Conduct more seminars and group discussions on environmental education and awareness.



Recommendations:

Following are some of the key recommendations for improving campus environment.

1. College should develop its own Environmental Policy by using guidelines given in Green Audit document.
2. The data related to all measured environmental parameters should be monitored and recorded regularly and information be made available to administration.
3. The college should develop internal procedures to ensure its compliances with environmental legislation and responsibility be fixed to carry out it in practice.
4. Wherever possible the waste should be reused or recycled.
5. Practice of waste segregation to be initiated.

ENVIRONMENT MANAGEMENT PLAN:

By understanding the dynamics of present situation of resource utilization and current practices of waste disposal we have prepared an Environment Management Plan (EMP) for the Ghanshyamdas Saraf College of Arts and Commerce. This plan not only will provide the strengths, weaknesses and remedies for the Environment and clean campus but also give priority of the sector where the college has to give more efforts to improve its environment.

Solid Waste

Sector		Strengths	Suggestions
Paper	1	Pulping of major portion of papers i.e. answer sheets, bills and other administrative papers.	Towards paperless office More use of e-mails, e-money transfer and advance IT technology for communication
	2	Use of one sided papers for rough prints and Xerox	
Plastic	1	Reuse of small plastic as Eco bricks	Segregation of waste at the source and sending plastic waste for recycling Ban on Plastic carry bags in College premises



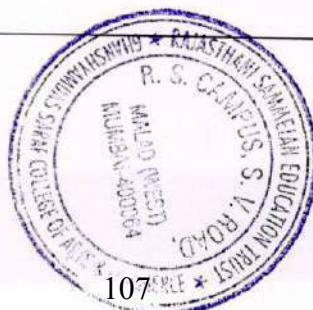
Biodegradable waste		Solid waste generated	Segregation of solid waste help in composting process
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Energy

Sector		Strengths	Suggestions
Electricity	1	Use untraditional source of energy	Employment of more solarpanels and other renewable energy sources
			Use of solar pumps for water tanks.
			General awareness about electricity saving
Sector		Strengths	Suggestions
Fuel	2	Use of public Transport system is comparatively more by staff and students	General awareness about efficient use of fuel.

Water

Sector		Strengths	Suggestions
Water utilization		College has potential of Rain water harvesting	Installation of automatic water pumps to avoid overflowing losse
			Proper and timely maintenance of plumbing at all departments
			Installation of rain water harvesting assembly



Hazardous Waste

Sector		Strengths	Suggestions
E-waste		E waste is sent to E waste collection center at Malad (W), Mumbai	There must be segregation of e-waste from regular waste and also among the e-waste. E-waste in all forms not only computers, should be collected Properly

Air and Noise

Sector		Strengths	Suggestions
Air and Noise		Air quality is still in good condition	The plantation can be increased by vertical gardening.

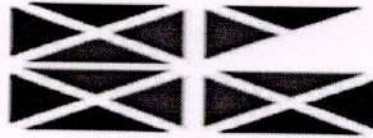
Tree Census

Sector		Strengths	Suggestions
Tree Vegetation		There is requirement of tree Plantation	Avoid monoculture, variety of species should be planted in campus



Ashwadevi
PRINCIPAL

Rajasthani Sammelan Education Trust
Ghanshyamdas Saraf College
Of Arts & Commerce



Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS



Internal Quality Assurance Cell (IQAC)

Energy Audit Report-2022-2023

INTERNAL QUALITY ASSURANCE CELL



Energy Audit 2022-23

**Energy Audit Report
Of**

Ghanshyamdas Saraf College of Arts and Commerce

RSET Campus, S.V. Road,

Malad, Mumbai – 400 064

ENERGY AUDITOR
M/S UPENDRA DEUSKAR & ASSOCIATES
513/E, RUIKAR TRUST BUILDING,
NEAT ST STAND, KOLHAPUR.
CONTACT – 9422044172

ACADEMIC YEAR 2022-23



DETAILS OF ELECTRICAL ENERGY AUDIT REPORT

Name and Address of the customer:

Ghanshyamdas Saraf College of Arts and Commerce
RSET Campus SV. Road Malad (W) Mumbai: 64

Contact Person:

Mrs.Seema Malani- 9049990930
Mr.Bhushan Athale - 9423918700

Date of Audit:

9/01/2023

Energy Auditor:

Mr. Upendra Deuskar (9422044172)
Register No – EA- 1674

Audit Team:

Mr. Upendra Deuskar
Mr. Atul Chougule

Instruments/ Meters used for Audit-

- 1) Tong tester
- 2) Lux Meter
- 3) Earth Tester



1.1 Scope of Work, Methodology and Approach

Scope of work and methodology was to study of Energy Pattern in the college. While undertaking data collection, field trials and their analysis, due care was always taken to avoid abnormal situations so as to generate normal/representative pattern of energy consumption at the facility.

1.2 Approach to Energy Audit

We focused our attention on energy management and optimization of energy efficiency of the systems and equipments. The key to such performance evaluation lies in the sound knowledge of performance of equipments and system as a whole.

1.3 Energy Audit Methodology

Energy Audit Study is divided into following four steps

1) Historical Data Analysis

The historical data analysis involves last 6 months energy consumption.

2) Actual measurement and data analysis

This step involves actual site measurement and field trials using various portable measurement instruments. It also involves input to output analysis to establish actual electrical load data.

1) Identification and evaluation of Energy Conservation Opportunities

This step involves evaluation of energy conservation opportunities identified during the energy audit. It gives potential of energy saving and investment required to implement the proposed modifications.

4) All recommendations for energy saving measures.



ENERGY METER DETAILS & CONSUMPTION

1) Consumer No.	150069858
2) Type of Load	Lighting and UPS
3) Load catered on Meter	Classrooms & IT Lab
4) Supply	3 Phase, 4 Wire
5) Sanctioned Load	7.20 KW
6) Connected Load	15 KW
7) Billed Power Factor	1.00

LAST SIX MONTHS ELECTRICITY BILLS

Sr. No	Month	No. of Units	Amount (Rs.)
1	July - 2022	2552	29,870.00
2	August -2022	1745	20,010.00
3	September-2022	1226	13,640.00
4	October-2022	1479	16,810.00
5	November-2022	1129	12,460.00
6	December- 2022	1956	23,370.00

Avg. Billing Unit per Month – 1681.16 Units

Avg. Amount of Bill per Month – Rs. 19360 /-

Avg. Rate per Unit = Rs 19360 / 1681.16 = Rs. 11.51/-

Observations:-

- 1) The above data shows that the Bill was decreased in August. September due to less presence & occupancy in classes.
- 2) The average rate for lighting consumption Rs. 12 to Rs. 13.
- 2) Use Lead Acid Batteries for UPS Increases maintenance.



RECOMMENDATION FOR ENERGY SAVINGS

1. Air-conditioners in the office area are running are at 20-22 Degree temperature. Substantial power can be saved if they are put at 24-25 Degree for human working areas.
2. Some areas LED Tube Lights are installed. Replace rest of the light fixtures with LED to save about 30% lighting energy.
3. The earthing resistance needs improvement. New earthing to be done in from safety point of view.
4. All employees to be trained to conserve energy. Training to be given to them that TURN OFF lights, fans & air-conditioners when you are not in the room / department. Occupancy sensors also serve above purpose automatically.
5. Use of Solar ON-GRID SYSTEM of 5 KW as per Load with Nett-metering from MSEDCL will be play a major role in energy savings.



Ashwath
PRINCIPAL

Rajasthani Sammelan Education Trust
Ghanshyamdas Saraf College
Of Arts & Commerce



Ghanshyamdas Saraf
college of arts & commerce
EDUCATION EMPOWERS



Internal Quality Assurance Cell (IQAC)

Green Audit/ Environment Audit /Energy Audit
Reports- 2023-2024

INTERNAL QUALITY ASSURANCE CELL

Green/ Environment Audit

(2023-24)



Introduction

1. Green Audit:

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments. It aims to analyze environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. The purpose of green auditing is to assess periodically the compliance of completed or on-going activities with the requirements of legislation, measures proposed in environmental policies, environmental management systems and environmental schemes or the provisions of standards and contracts.

Benefits of Green Audit:

1. Ensuring legislative compliance. Reducing environmental impacts.
 2. Reducing waste, water and energy costs.
 3. To safeguard the environment and natural resources.
 4. Empower the organization to frame a better environmental performance.
 5. It portrays good image of institution through its clean and green campus.
- Finally, it will help to build positive impression for the upcoming NAAC visit.

1.1 NAAC criteria VII Environmental Consciousness:

Green Audit is assigned to the criterion VII of NAAC. National Assessment and Accreditation Council which is a self-governing organization that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation of the institution. The intention of green audit is to upgrade the environmental condition in and around the institution. It is performed by considering some environmental parameters like water and wastewater management, energy conservation, waste management, air monitoring, etc. for making the institution more eco-friendly.

Students are the major strength of any academic institution. Practicing green actions in any educational institution will inculcate the good habit of caring nature in students. Many environmental activities like plantation and nurturing saplings and trees, cleanliness drives, bird watching camp, no vehicle day, rain water harvesting visits to ecologically important places through green clubs will make the student a good citizen of country.



College Photo from Road



Ghanshyamdas Saraf College of Arts and Commerce was established in 1983. This college offers a wide plethora of course ranging from traditional B. Com to more contemporary degree courses like BCAAF, BCBI, BMS, BFM, BSc. IT, and post graduate courses in M.Com (Accounting & Management).



Name of the Institute : Ghanshyamdas Saraf College of Arts and Commerce
Establishment : 1983
Pioneers : Rajasthani Sammelan's Education Trust

This college offers a wide plethora of course ranging from traditional B. Com to more contemporary degree courses like BCA, BCBA, BMS, BFM, BSc. IT, and post graduate courses in M.Com (Accounting & Management). The college is affiliated to University of Mumbai. Approved by state Government of Maharashtra. A Proper Care Is Taken to Provide Basic Amenities for The Students & The Staff Members.

The Facilities are as Follows -

- **Classroom 37:** spacious classrooms with necessary furniture, Whiteboards & Projector in building of the college.
- **Library:** The Library of The College Is Centralized with More Than 53000 Books & 01 Reading Room.
- **Laboratory 1:** We are having spacious 2 laboratories with 176 Computers with Battery backup, Printer, Scanner, LCD projectors, equipment's & furniture etc.
- **Administrative Office:** The spacious LAN computerized administrative office with modern technology & with necessary facilities.
- **Toilet:** We have total 6 storage building on alternate floors we have Girls & Boys toilets.



METHODOLOGY

The college has conducted Green/ Environment Audit in the year 2023-24 on 10th and 11th January 2024.

The audit was carried out in three phases.

a. Questionnaire survey:

It includes administrative issues associated with the planning of audit, selecting the personnel for the audit team, preparing the audit protocol used by organization, obtaining background information, etc. The scope of the audit was defined at this step. It was decided that the information related to Water and Waste water management, Energy conservation, Green belt, Carbon inventory, Solid waste management, Hazardous waste management, Air and noise quality status, activities of nature club, etc. should be gathered for the audit purpose. For collecting data related to these different areas, specific questionnaires were prepared.

b. On-site visit and observations:

The data related to above mentioned areas was collected by visiting each and every facility of college campus. The questionnaires were filled up according to the present situation. Photographic documentation was also done with the help of sophisticated camera.

c. Data analysis:

After collection of secondary data, the reviews related to each environmental factor were taken by the green audit team. The data was tabulated, analyzed and graphs were prepared using computer. Depending upon the observations and data collected, interpretations were made. The lacunas and good practices were documented. The Environmental Management Plan (EMP) was prepared for the next academic year in order to have better environmental sensitization. Finally, all the information was compiled in the form of Green Audit Report.



Environmental Auditing Process



Planning



Choosing Audit Team



Collection of Data



Analyzing Results of Audit



Evaluating Audit



2. Water and Waste water Audit:

Water audit can be defined as a qualitative and quantitative analysis of water consumption to identify means of reducing, reusing and recycling of water. A water audit is a technique or method which makes possible to identify ways of conserving water by determining any inefficiencies in the system of water distribution. The measurement of water losses due to different uses in the system or any utility is essential to implement water conservation measures in such an establishment.

Water accounting is the process of communicating water resources related information and the services generated from consumptive use in a geographical domain, such as a river basin, a country or a land use class; to users such as policy makers, water authorities, managers, etc.

Importance of Water Audit:

- Water audit improves the knowledge and documentation of the distribution system.
- Identifies the problem and risk areas and a better understanding of what is happening to the water after it leaves the source point.
- Leads to reduced water losses.
- Improved financial performance.
- Improved reliability of supply system.
- Efficient use of existing supplies.
- Better safeguard to public health and property and reduced legal liability. Reduced disruption, thereby improving level of service to customers.
- Large potential cost savings that can be achieved by water harvesting, through the recycling of water and the use of rain water.

It is observed that a number of factors like climate, culture, food habits, work and working conditions, level and type of development, and physiology determine the requirement of water. The community which has a population between 20,000 to 100,000 requires 100 to 150 liters per person (capita) per day. As per the standards provided by WHO Regional office for South East Asia colleges requires 2 liters per student; 10-15 liters per student if water-flushed toilets.



2.1 Water Audit:

Water usage can be defined as water used for all activities which are carried out on campus from different water sources. This includes usage in residential girls hostel academic buildings, on campus and on grounds. Wastewater is referred as the water which is transported off the campus. Thewastewater includes sewerage, residence, hall waters used in cooking, showering, clothes washing as well as wastewater from chemical and biological laboratories which ultimately going down in sink or drainage system.

Water Audit Process:

Measurements

Calculations

Audit Observations

Report

Discussion

Planning & Process

Steps that can be taken

Zeroing in on conservation

Implementation

Finalization



2.2 Overall water consumption in the RSET Campus

From the data collected for water audit of Ghanshyamdas Saraf College of Arts and Commerce SV road Malad (w) Mumbai the water distribution and water consumption pattern is noticed as follow. The college is having main building for administrative work as well for teaching work. For the water audit purpose we categorized the college campus area

In water audit study the daily water consumption is found to be as follows.

Daily water consumption

Daily water consumption by institute building								
							Water	
							Loss	
						Wash	During	
Site	Toilet		Kitchen	Garden	Drinking	Basin	Filling	Total
Total use of								
Water								
(liters/day)	867		45	265	225	78	20	1500
Percentage	32.34		3	20	1	15	1.4	100
					5			

The total water consumption per day for all buildings is found to be 1500 lit/day



3. Total Electric Energy Audit:

An electricity audit is simply an audit or calculation of how much electricity you are using in your home and of where that electricity is going.

An energy audit is an analysis of a facility, indicating how and where that facility can reduce energy consumption and save energy costs. Its insight to energy efficiency and conservation can lead to significant savings on the company's utility.

Importance of Electric energy Audit:

- The audit will not only inform you of opportunities but provide you with financial analysis. This will enable prioritization based on financial benefit and return on investment.
- Provide you with solid, easy to understand technical information regarding the proposed energy conservation measures.
- A good quality audit will analyze your historical energy use and find potential issues using statistical methods.
- Provide you with emissions analysis to help you understand the benefits of your decisions from an environmental standpoint.
- Understand where energy is used and which areas are worth focusing on the most (energyhogs).
- Provide you with benchmark information to help you understand your energy use performance compared to others in your field and area.



Electric energy Audit

Class Number	LED		Regular Light			Fan	Motor		Computer
	12 watt	36 watt	20 watt	28 watt	36 watt	60 watt	1 HP	2 HP	60 watt
B.des 1	-	9	-	-	-	6	-	1	1
B.des 2	-	4	-	-	-	3	-	-	1
B.des 3	-	4	-	-	-	4	-	-	1
B.des 4	-	4	-	-	-	4	-	-	1
Staff Room	-	1	-	-	-	1	-	-	-
Library	4	-	-	-	-	1	-	-	1
Admin Office	-	2	3	-	4	6	-	-	30
Passage	-	2	-	-	-	2	-	-	-
Unit	4	26	3	-	4	27	-	1	35
Total Watts	48	936	60	-	144	1620	-	1119	2100
Total Units	LED Unit = 984 W							Regular Light Unit = 6027 W	

Other Electric Equipment's

Names	Quantity	Total
Printer 240 W	2	480
Projector 210 W	7	1470
Xerox 300 W	1	300

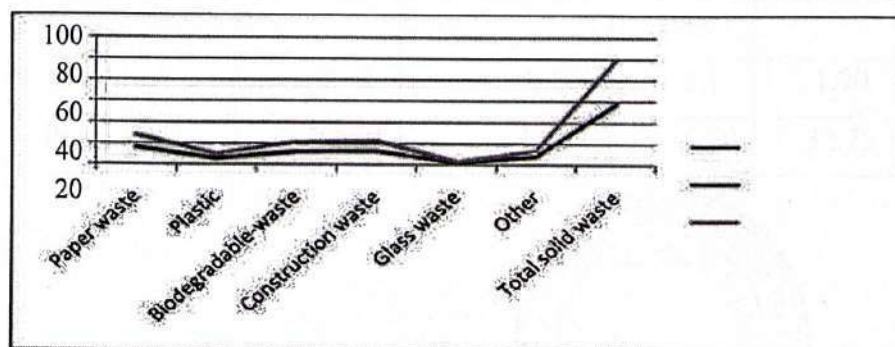


4. Solid Waste Audit:

Solid waste management is becoming a major public health and environmental concern world over. Improper solid waste disposal leads to substantial negative environmental impacts e.g., pollution of air, soil, water and generation of greenhouse gases from landfills. Many insect borne diseases are spread through garbage. Therefore, it is necessary to manage the solid waste appropriately to reduce the load on waste management system. The intention of this inventory is to find out the quantity, volume, type and current management practice of solid waste generation in Ghanshyamdas Saraf College of Arts and Commerce. This survey related to solid waste generation would be helpful for making the college more environments friendly. Generation of solid waste in Ghanshyamdas Saraf College of Arts and Commerce are as follows:

Category wise solid waste generation at Ghanshyamdas Saraf College of Arts and Commerce

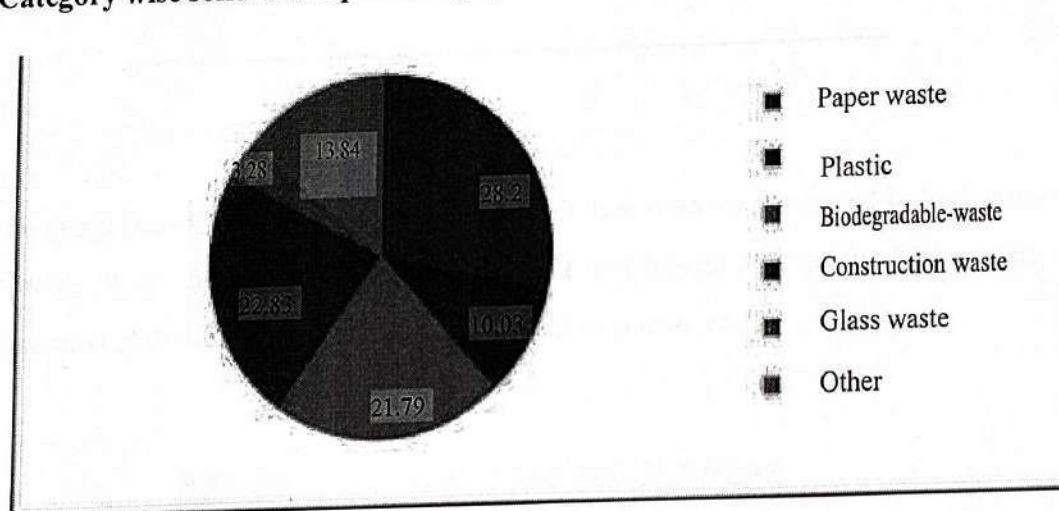
Category	Paper	Plastic	Biodegrada	Construc	Glass	Other	Total
of waste	waste		ble Waste	tion Waste	waste		Solid
							Waste
Quantity kg/month	16.3	5.8	12.6	13.2	1.9	8.0	57.8
Percentage (%)	28.20	10.03	21.79	22.83	3.28	13.84	100



Category wise solid waste generation at GSCC

The average amount of solid waste generated per month in Ghanshyamdas Saraf College of Arts and Commerce was 57.8 kg/month. On the basis of observations the highest quantity of solid waste generated is paper waste which is about 16.3 kg/month and construction waste is about 12.6 kg/month respectively. The examination department generated paper waste in large quantity in the college. The glass waste is produced in minimum quantity i.e. 1.9 kg/month. Besides, the above-mentioned wastes, plastic waste is generated in the form of plastic wrappers of food items, old broken chairs, old broken water tank, etc.

Category wise solid waste percentage(%)

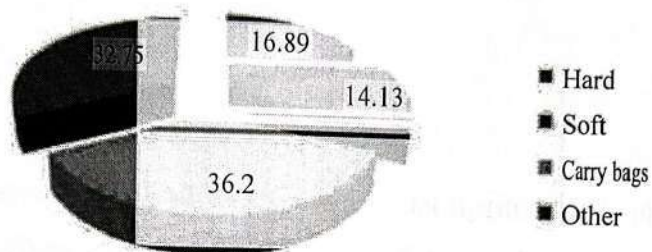


Plastic waste generation and its distribution in college campus

Category	Hard	Plastic kg/ month			Total
		Soft	Carry	Other	
			Bags		
Quantity	0.98	0.82	2.1	1.90	5.8
Percentage	16.89	14.13	36.20	32.75	100



Categorization of plastic waste at Ghanshyamdas Saraf College of Arts and Commerce



The graph shows that the hard plastic and carry bag waste is generated in higher amount which is 36.2% and 32.75% respectively. The soft plastic and other plastic waste also generated in the college is 14.13% and 16.89% respectively.



5. Hazardous Waste Audit:

Ghanshyamdas Saraf College of Arts and Commerce is one of the well-known educational institutes' having 1111 student strength. This college caters the facility for Interior Design, Landscape & Building Site Supervisor students in their campus. No chemical hazardous waste provided.

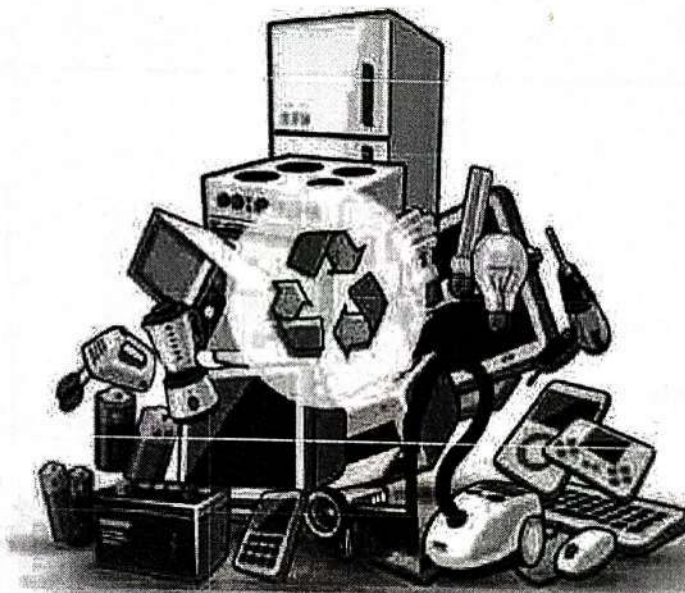
6. E-waste:

Generation of e-waste is found on every educational institute. It is observed that the E-waste generated at Ghanshyamdas Saraf College of Arts and Commerce is of Schedule II category. Computers, Printers, Laptops, Scanners, Internet Routers and Xerox machines are used for administrative work. The wire required for the connectivity also gets included in the e waste. The Rajasthani Sammelan's Trust has its own computer laboratory of 176 computers. The library uses some electronic scanners which after its use can become e-waste. We have proper disposal system for e-waste and also we have set-up e-waste collection box for the students inside the premises.



Key Observations:

1. The average waste generated in the college is. 57.8 Kg/month
2. Highest quantity of solid waste is of paper waste 16.3 Kg/month Biodegradable waste is 12.6Kg/month.
3. Plastic waste is about 5.8 % to the total solid waste on the college campus.
Some of the classrooms were found without solid waste baskets.
4. There is need of some improvements into the collection of solid waste. Solid waste is to be segregated at the source.



7. Ambient Air Quality Status:

Ambient air sampling is important part of environmental monitoring. Particulate matter and trace gases sampling were carried out on the college campus. The sampling was carried out using calibrated Handy Dust Sampler APM 821 with flow rate 1 lit/min equipped with glass fiber filter paper (size 25 mm). The sampling period was 2 hrs.

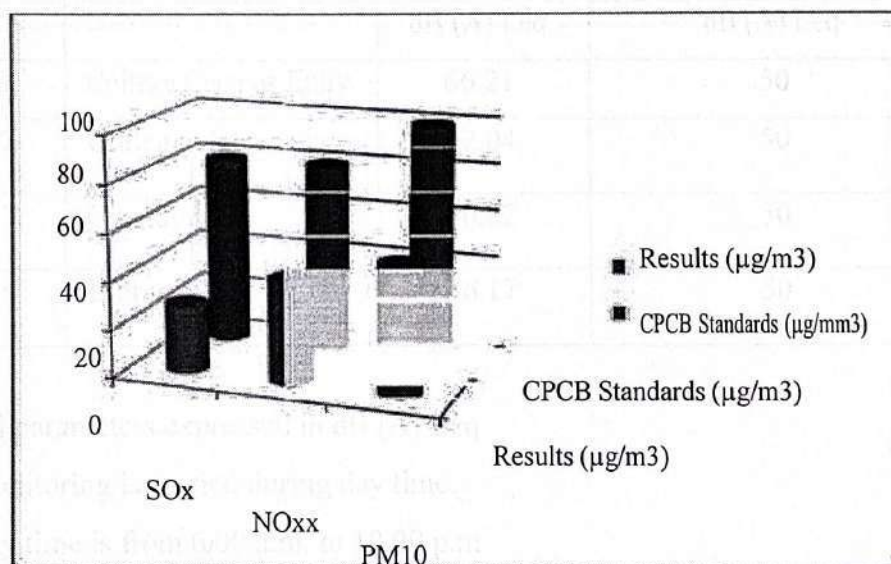
Sulphur dioxide (SO_2) and Oxides of Nitrogen (NO_x) in the air were estimated with West and Gaeke method and Jacob and Hochheisser modified method respectively. Particulate matter (PM_{10}) was measured gravimetrically. The samples were collected and analyzed in the approved laboratory. The details of air quality status in the college are given as below:



Ambient air quality status of Ghanshyamdas Saraf College of Arts and Commerce

Sr. No.	Parameters	3 Results ($\mu\text{g}/\text{m}^3$)	CPCB Standards
			($\mu\text{g}/\text{m}^3$)
1	Sox	28.57	80
2	NOx	43.33	80
3	PM ₁₀	53.61	100

It was observed that all the air quality parameters analyzed were within the Ambient Air Quality Standards of Central Pollution Control Board, India. The air quality is good in the college campus as well as surrounding.



Ambient air quality status of Ghanshyamdas Saraf College of Arts and Commerce



8. Ambient Noise Monitoring Status: –

Ambient noise monitoring was carried out in different areas of college campus like at college campus entry, college gate, and corridor, floor. The sampling was carried out using calibrated Sound Level Meter (AZ 8921) by logarithmic scale in Decibels (dB). The noise readings were collected in the college campus and calculated. The details of noise status in college campus are given as below:

Ambient Noise levels in Ghanshyamdas Saraf College of Arts and Commerce

Sr. No.	Site Name	Results	Standards (Day Time)
		dB (A) Leq	dB (A) Leq
1	College Campus Entry	66.21	50
2	College Gate	62.04	50
3	Corridor	60.82	50
4	Library	36.17	50

Note: - 1. All parameters expressed in dB (A) Leq.

2. Monitoring is carried during day time.

3. Day time is from 6.00 a.m. to 10.00 p.m.

It is observed from the table that the Ambient Noise levels overall in college is on higher side except ladies hostel as compared to the standards of Central Pollution Control Board for the day time.

Since the college is located adjacent of main roads and therefore, the major source of noise is automobile noise, rolling noise. The human communication and transportation are causing high level sound. It is advisable to increase the green cover in the surrounding to avoid noise.



Parking and traffic management: Parking inside the college premises and outside the college premises is strictly prohibited, but there is a special parking area allowed by the local authorities nearby the college.

Bird's diversity:

The diversity among birds is striking. Birds live in a variety of different habitats. Birds that live in different habitats will encounter different foods and different predators. Birds can be carnivores (feeding on other animals), herbivores (feeding on plants), or generalists (feeding on a variety of foods). Sparrow, crow, bulbuls, Pigeon, Cuckoo, Butterfly, etc these species are seen regularly around the campus.

9. Details of Tree Census In College Campus:

The beginning of the 21st century brought growing concern about global warming, climate change, food security, poverty, and population growth. CO₂ is a principle component causing global warming. Atmospheric carbon dioxide levels have increased to 40% from preindustrial levels to more than 390 parts per million CO₂. On this background it is a need of time to cover the educational campuses with green cover interrelated with climate change.

The current is a present status of vegetation and carbon storage assessment of area under the Ghanshyamdas Saraf College of Arts and Commerce. In an era of global warming and climate change; carbon emission, carbon sequestration, mitigation, adaptation are the keywords in academia. Carbon sequestration is a phenomenon of converting atmospheric carbon i.e. CO₂ into other pools of carbon such as vegetation, soil, ocean etc. in various forms to mitigate global warming. It is one of the important clauses of Kyoto Protocol. Current tree census methodology has been adopted from the guidelines set by Indian Institute of Remote Sensing, Deharadun, Govt. of India.

Total number of trees enumerated on Ghanshyamdas Saraf College of Arts and Commerce: Total 25 numbers of potted plants.



CONCLUSION AND MANAGEMENT PLAN

The Sahyadri Group Enriching Nature Environment and Science, Kolhapur has conducted a Green Audit of Ghanshyamdas Saraf College of Arts and Commerce in the academic year 2023-24. Green auditing is the process of identifying and determining whether institution practices are eco-friendly and sustainable. The main objective of college to carry out green audit is to check green practices followed by college and to conduct a well formulated audit to understand where we stand on a scale of environmental soundness.

Conclusions:

From the green audit conducted by college following are some of the conclusions which can be taken for improvement of the college campus to become environment friendly college campus.

1. College takes efforts to **dispose majority waste by using proper methods.**
2. **Confidential paper waste is disposed properly.**
3. **Glass waste is to be disposed properly.**
4. Electricity consumption is more at some departments.
5. Use of **CFL** lamps in the college is minimum. Its use should be encouraged and now converted to **LED** lights.
6. Toilets and bathrooms are consuming more water.
7. Roof top rain water harvesting should be planned which is useful for filling up of tanks on campus.
8. **E-waste segregation, handling and disposal are properly done.**
9. Practice of waste segregation to be initiated.
10. Air quality on the campus is comparatively good
11. Conduct more seminars and group discussions on environmental education and awareness.



Recommendations:

Following are some of the key recommendations for improving campus environment.

1. College should develop its own Environmental Policy by using guidelines given in Green Audit document.
2. The data related to all measured environmental parameters should be monitored and recorded regularly and information be made available to administration.
3. The college should develop internal procedures to ensure its compliances with environmental legislation and responsibility be fixed to carry out it in practice.
4. Wherever possible the waste should be reused or recycled.
5. Practice of waste segregation to be initiated.

ENVIRONMENT MANAGEMENT PLAN:

By understanding the dynamics of present situation of resource utilization and current practices of waste disposal we have prepared an Environment Management Plan (EMP) for the Ghanshyamdas Saraf College of Arts and Commerce. This plan not only will provide the strengths, weaknesses and remedies for the Environment and clean campus but also give priority of the sector where the college has to give more efforts to improve its environment.

Solid Waste

Sector		Strengths	Suggestions
Paper	1	Pulping of major portion of papers i.e. answer sheets, bills and other administrative papers.	Towards paperless office More use of e-mails, e-money transfer and advance
	2	Use of one sided papers for rough prints and Xerox	IT technology for communication
Plastic	1	Reuse of small plastic as Eco bricks	Segregation of waste at the source and sending plastic waste for recycling Ban on Plastic carry bags in College premises



Biodegradable waste		Solid waste generated	Segregation of solid waste help in composting process
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Energy

Sector		Strengths	Suggestions
Electricity	1	Use untraditional source of energy	Employment of more solarpanels and other renewable energy sources
			Use of solar pumps for water tanks.
			General awareness about electricity saving
Sector		Strengths	Suggestions
Fuel	2	Use of public Transport system is comparatively more by staff and students	General awareness about efficient use of fuel.

Water

Sector		Strengths	Suggestions
Water utilization		College has potential of Rain waterharvesting	Installation of automatic water pumps to avoid overflowing losse
			Proper and timely maintenance of plumbing at all departments
			Installation of rain water harvesting assembly



Hazardous Waste

Sector		Strengths	Suggestions
E-waste		E waste is sent to E waste collection center at Malad (W), Mumbai	There must be segregation of e-waste from regular waste and also among the e-waste. E-waste in all forms not only computers, should be collected Properly

Air and Noise

Sector		Strengths	Suggestions
Air and Noise		Air quality is still in good condition	The plantation can be increased by vertical gardening.

Tree Census

Sector		Strengths	Suggestions
Tree Vegetation		There is requirement of tree Plantation	Avoid monoculture, variety of species should be planted in campus



Ashwat R. Desai

Dr. (CA) Ashwat R. Desai

Principal, GSCC
PRINCIPAL

Rajasthani Sammelan Education Trust
Ghanshyamdas Saraf College
Of Arts & Commerce

Energy Audit 2023-24



**Energy Audit Report
Of**

Ghanshyamdas Saraf College of Arts and Commerce

RSET Campus, S.V. Road,
Malad, Mumbai – 400 064

ENERGY AUDITOR
M/S UPENDRA DEUSKAR & ASSOCIATES
513/E, RUIKAR TRUST BUILDING,
NEAT ST STAND, KOLHAPUR.
CONTACT – 9422044172

ACADEMIC YEAR 2023-24



DETAILS OF ELECTRICAL ENERGY AUDIT REPORT

Name and Address of the customer:

Ghanshyamdas Saraf College of Arts and Commerce
RSET Campus SV. Road Malad (W) Mumbai: 64

Contact Person:

Mrs. Seema Malani - 9049990930

Mr. Bhushan Athale - 9423918700

Date of Audit:

10/01/2024

Energy Auditor:

Mr. Upendra Deuskar (9422044172)

Register No – EA- 1674

Audit Team:

Mr. Upendra Deuskar

Mr. Atul Chougule

Instruments/ Meters used for Audit-

- 1) Tong tester
- 2) Lux Meter
- 3) Earth Tester



1.1 Scope of Work, Methodology and Approach

Scope of work and methodology was to study of Energy Pattern in the college. While undertaking data collection, field trials and their analysis, due care was always taken to avoid abnormal situations so as to generate normal/representative pattern of energy consumption at the facility.

1.2 Approach to Energy Audit

We focused our attention on energy management and optimization of energy efficiency of the systems and equipments. The key to such performance evaluation lies in the sound knowledge of performance of equipments and system as a whole.

1.3 Energy Audit Methodology

Energy Audit Study is divided into following four steps

1) Historical Data Analysis

The historical data analysis involves last 6 months energy consumption.

2) Actual measurement and data analysis

This step involves actual site measurement and field trials using various portable measurement instruments. It also involves input to output analysis to establish actual electrical load data.

1) Identification and evaluation of Energy Conservation Opportunities

This step involves evaluation of energy conservation opportunities identified during the energy audit. It gives potential of energy saving and investment required to implement the proposed modifications.

4) All recommendations for energy saving measures.



ENERGY METER DETAILS & CONSUMPTION

1) Consumer No.	150069858
2) Type of Load	Lighting and UPS
3) Load catered on Meter	Classrooms & IT Lab
4) Supply	3 Phase, 4 Wire
5) Sanctioned Load	7.20 KW
6) Connected Load	15 KW
7) Billed Power Factor	1.00

LAST SIX MONTHS ELECTRICITY BILLS

Sr. No	Month	No. of Units	Amount (Rs.)
1	July - 2023	2054	24670.00
2	August -2023	1264	14700.00
3	September-2023	1228	14300.00
4	October-2023	1271	14800.00
5	November-2023	1933	22980.00
6	December- 2023	2075	25300.00

Avg. Billing Unit per Month – 1637.5 Units

Avg. Amount of Bill per Month – Rs. 19458.4 /-

Avg. Rate per Unit = Rs 19458 / 1637.5 = Rs. 11.88/-

Observations:-

- 1) The average rate for lighting consumption Rs. 12 to Rs. 13.
- 2) Use Lead Acid Batteries for UPS Increases maintenance.



RECOMMENDATION FOR ENERGY SAVINGS

1. Air-conditioners in the office area are running are at 20-22 Degree temperature. Substantial power can be saved if they are put at 24-25 Degree for human working areas.
2. Some areas LED Tube Lights are installed. Replace rest of the light fixtures with LED to save about 30% lighting energy.
3. The earthing resistance needs improvement. New earthing to be done in from safety point of view.
4. All employees to be trained to conserve energy. Training to be given to them that TURN OFF lights, fans & air-conditioners when you are not in the room / department. Occupancy sensors also serve above purpose automatically.
5. Use of Solar ON-GRID SYSTEM of 5 KW as per Load with Nett-metering from MSEDCL will be play a major role in energy savings.



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Principal, GSCC

PRINCIPAL

Rajasthani Sammelan Education Trust
Ghanshyamdas Saraf College
Of Arts & Commerce



Threco.INST.2023-24.CE00009

Date: 02/05/2023

Issued to: Ghanshyamdas Saraf College of Arts and Commerce

This is to certify that Ghanshyamdas Saraf College of Arts and Commerce has given 26.2 Kgs of E-Waste to The Recycling Company (Threco Recycling LLP) to recycle in an eco-friendly manner.

The pick-up activity was carried out on 29/04/2023
Threco applauds responsible disposal undertaken.

Find the benefits of recycling electronic devices responsibly. You will be surprised to learn that your efforts benefit the environment in a tremendous way!



For Threco Recycling LLP

THE RECYCLING COMPANY
MPCB Authorisation No.
MPCB/RO(HQ)/HSMD/Autho/20/EW-
18 GST No. 27AAPFT6883K1Z6



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National Institution for Transforming India



Threco.INST.2024-25.CE79

Issued to: Ghanshyamdas Saraf College of Arts and Commerce

This is to certify that Ghanshyamdas Saraf College of Arts and Commerce has given 25.1 Kgs of E-Waste to The Recycling Company (Threco Recycling LLP) to recycle in an eco-friendly manner.

The pick-up activity was carried out on 31/08/2024
Threco applauds responsible disposal undertaken.

Find the benefits of recycling electronic devices responsibly. You will be surprised to learn that your efforts benefit the environment in a tremendous way!



For Threco Recycling LLP

THE RECYCLING COMPANY
MPCB Authorisation No.
MPCB/RO(HQ)/HSMD/Autho/20/EW-
18 GST No. 27AAPFT6883K1Z6



Niti Aayog
नीति आयोग
National Institution for Transforming India

An Initiative of



In Collaboration with



CLEANATHON 5.0

CERTIFICATE

OF APPRECIATION

PRESENTED TO :

GHANSHYAMDAS SARAF COLLEGE

For participating in Cleanathon 5.0 - Largest Student Beach Clean up drive organized by Rajani Foundation India in collaboration with United for Greater Cause on 24th September 2023 at Juhu Beach.

Mr. Rupesh Ghosalkar
Rajani Foundation India

Adv. Shivam Pednekar
United For Greater Cause