



Kopergaon Taluka Education Society's
K.J. Somaiya Arts, Commerce and Science
College, Kopergaon
Dist. Ahmednagar (M.S.) 423 601



Green Audit Report
(2022- 2023)



Green Education Campus Certification

Geotek Global Certification Pvt. Ltd.

hereby certify that the organization

**Kopargaon Taluka Education Society's
K.J. Somaiya College of Arts, Commerce & Science**

Address : Mohanirajnagar, Kopargaon - 423601, District Ahmednagar, Maharashtra, India

has implemented and maintains a **Green Education Campus** for

Scope :

To Evolve and Impart Comprehensive, Multidisciplinary and Multidimensional Higher Education to the Students at Undergraduate, Post Graduate, Certificate and Doctoral Programmes in Arts, Commerce, Science & Physical Education

An audit was performed and proof has been furnished that the management system fulfils the requirements of international standard detailed below ...

Scheme : Green Education Campus

Certificate No. : 23.GGCS.IN.GEC101692

Certification Date : 17th October 2022

Cert. Expiry Date : 16th October 2025



Reg. No. IN.EMS20.0512



Chief Executive Officer

Geotek Global Certification Pvt. Ltd.
102, Raj Legacy, Near Bramhand Phase 5, Off. GB Road,
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	<p>Sanitary napkin vending machines</p> <p>Yoga and meditation sessions</p> <p>Raising awareness about AIDS, cancer and TB</p> <p>Blood donation camps</p> <p>Promoting organ donation</p> <p>Ensuring availability of fire extinguishers and first aid boxes</p> <p>Establishing emergency exit doors</p> <p>Designating controlled areas for hazardous chemicals</p> <p>Displaying emergency phone numbers</p> <p>Designating assembly points and forming safety task forces</p> <p>SOPs on laboratory safety and providing first aid boxes</p> <p>Awareness on 'No Use of Plastic'</p> <p>Placing dustbins throughout premises</p> <p>Prohibiting plastic use in canteen</p> <p>Using dust-proof chalks</p> <p>Minimizing paper usage for Xerox or Printing purposes</p> <p>Monitoring student entry and exit</p> <p>Prohibiting pressure horns</p>
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Introduction:

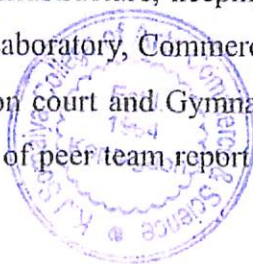
K. J. Somaiya College of Arts, Commerce & Science, Kopargaon is an institution managed by the Kopargaon Taluka Education Society, Kopargaon. Our college embodies the long-cherished dream of the people of Kopargaon, to have an institution of higher education for the children of farmers in the vicinity. The dream and the vision of our founders - who believed that the best service to humanity is done through Education. The college, established in 1964 is affiliated to Savitribai Phule Pune University, (Formerly known as Pune University) and aided by the Maharashtra Government. The location in a peaceful semi urban locality, the lush green lawns and well-designed infrastructure provide the perfect ambience for learning, sharing and holistic development of the students.

The college has witnessed benchmark changes in last few years. Some of the new academic programmes have been introduced for more exposure to students in their choices. 03 undergraduate programmes in Botany, Zoology and Mathematics with 03 PG programmes in M. C. A. Commerce, M.C.S and M. A. /M.Sc. Geography have started since last accreditation.

Twenty-two self-financed career-oriented certificate courses designed as per the local needs are offered to the students. These courses acted like touchstone, which created more opportunities for students to expand the sources for employability. It has also created circumstances to invite and interact with the experts from different disciplines, who share their knowledge and contributed in developing quality of teaching and learning. The college has promoted moral values of great legends by introducing certificate courses on Gandhian Thoughts and Dr. Ambedkar's Life and Work.

The college at present offers 16 undergraduate courses and 11 post graduate courses. The college has total student strength of 2357 comprising 1870 UG students and 487 PG students. The college has faculty strength of 80, of which 34 are permanent and 46 Contractual Teachers. 68 % of the Permanent faculty members are Ph. D holders, and remaining 32 % faculty members are on the verge of completion of Doctoral work. Office Superintendent also holds a Ph. D.

The College has expanded its infrastructure, keeping in mind the student's needs by providing them with I.C.T., Language Laboratory, Commerce Laboratory, auditorium, Indoor game hall with well-equipped badminton court and Gymnasium. The mentoring system has been introduced with due consideration of peer team report recommendation. The DST-FIST





scheme has contributed a lot to the laboratory development, renovation and granting major instruments with a grant of Rs.50,00,000/-. This all has definitely heightened the quality academic atmosphere of the college. The college has signed 11 MoU's with various academic institutions, industries, and social organizations. The NSS unit in last five years has adopted 02 villages "*Ghari and Dauch*" where various Government schemes were implemented. The Godavari River Bank beautification programme is under taken and it is appreciated by the society and media also.

The faculty of K. J. Somaiya College is committed to character building, developing skills and imparting knowledge. The advanced teaching learning methods are employed by the faculty members. The faculty is keen in providing academic, personal and career guidance to students. Students are encouraged to make use of ICT in the process of learning. The infrastructure and facilities available on the college are among the very best. The college has an exceptionally supportive management, parent association which helps the college scale new heights. The Alumnae continue to contribute to the growth of the college and take part in the welfare activities. The college gives importance to provide value and skill-based education.

For development of faculty, the institute organizes every year Seminar, Conferences, orientation programmes, one day workshops, for refurbishing their teaching-learning and also new research in their fields. This was possible only because of the support of administrative staff of the college. Even for them, the institute has organized orientation programmes for enhancing their capabilities. All faculty departments and administrative offices are connected with internet through lease line of 10 Mbps which makes them easy to connect and be updated with outside world. Nevertheless, the college always strives for quality sustenance and enhancement in higher education.

The college NCC & NSS units play an important role in character building, personality development and social upliftment. The institution upholds humanism and tolerance and helps the young generation to achieve confidence and "to raise oneself with the help of self" (*Uddhredatmanatmanam*) which is our guiding motto.





Kopargaon Taluka Education Society's

K.J. Somaiya College of Arts, Commerce & Science

Mohanirajnagar, Kopargaon - 423601, Dist. Ahmednagar (MH.)

Affiliated to Savitribai Phule Pune University, Pune ID No. PU/AN/ASC/07(1964)

☎ : 9146142000, 9146152000 Email ID : kjscollege@rediffmail.com, Website : kjscollege.com

AN ISO 9001-2015 CERTIFIED INSTITUTE

SAVITRIBAI PHULE PUNE UNIVERSITY "BEST COLLEGE AWARD"

Principal : Dr. B. S. Yadav (M.Sc., Ph.D.)

Founder President : Late K. B. Rohamare (Ex. M.L.A.)

Ref. No. :

Date : / /202

VISION

To make the institution K. J. Somaiya College of Arts, Commerce and Science, Kopargaon a seat of learning, imparting knowledge and global competencies to the students by inculcating among them the human, ethical and civic values and sense of patriotism. The institution that prepares the students to face the global challenges in terms of knowledge, research and sustainable development of the nation.

Mission

To make continuous and sincere efforts to impart global knowledge and skills to the students and promote soft skills, entrepreneurship, human values, research attitude, scientific temper and responsible citizenship among the students.




Co-ordinator

IQAC, K. J. Somaiya College
Kopargaon, Dist. A.Nagar

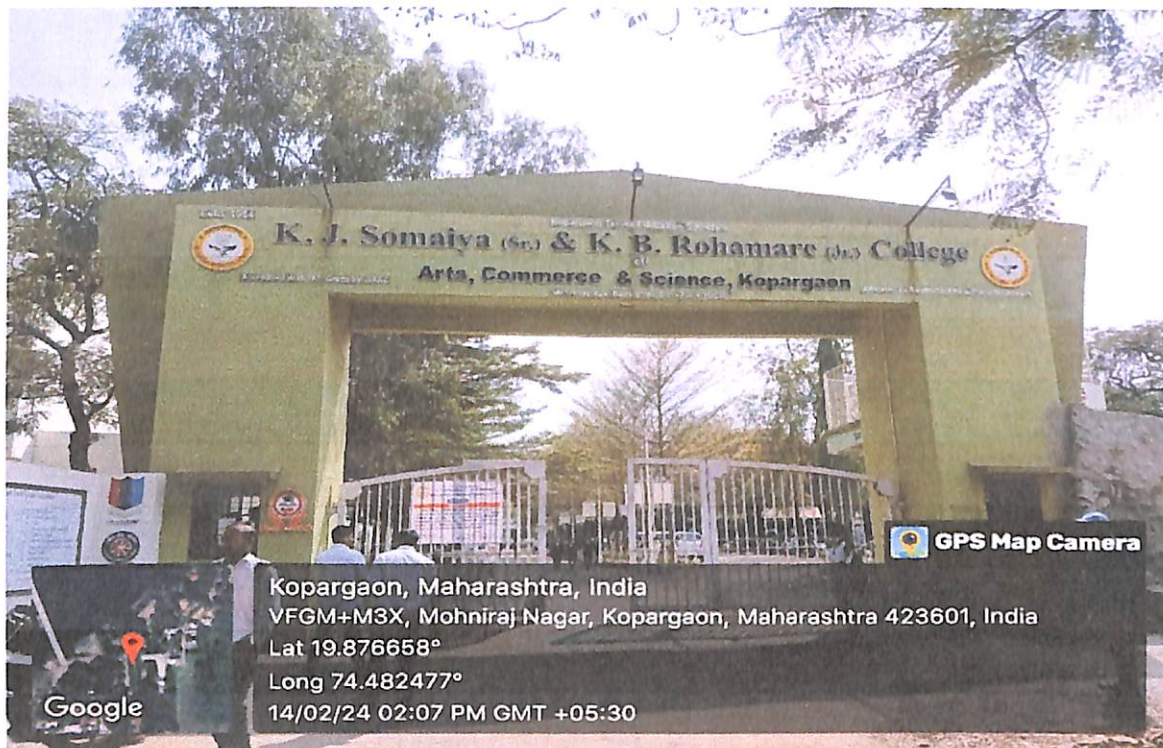


Principal

K. J. Somaiya College of Arts
Commerce & Science, Kopargaon



About The College



The inception of K. J. Somaiya College of Arts, Commerce and Science occurred in June 1964 under the auspices of the Kopargaon Taluka Education Society. The Science faculty was subsequently established in June 1992. This educational endeavor was championed by two esteemed visionaries, the late Shri. K. B. Rohamare (MLA) and Padmabhushan late Shri K. J. Somaiya. Their mission was to combat illiteracy and poverty in Kopargaon and their tireless efforts laid the foundation for this institution.

Shri. K. B. Rohamare (Dada) worked tirelessly to bring education to the lives of peasants and the underprivileged, extending beyond conventional boundaries. Through the organizational acumen of K. B. Dada and the financial commitment of Late K. J. Somaiya, this dream of educational empowerment became a reality in the form of our institute.

Our college has demonstrated a commitment to excellence in education, evident in our recent re-accreditation with an 'A' grade by NAAC, Bangalore and our attainment of ISO 9001:2015 Certification.



Committee for Green Audit

The Green Audit Committee will act as per the environmental policy and should the responsibility of maintaining and protecting environment surrounding the college. The aim of the committee is to provide advice for the development of environmental policy and practice in the areas of.

- ❖ Energy use and conservations
- ❖ Waste Management
- ❖ Soil Management
- ❖ Bio diversity and threatened species preservations
- ❖ Green environment and clean campus
- ❖ Eco-friendly techniques
- ❖ Noise Pollution
- ❖ Air Pollution
- ❖ Paper less operating procedure

Constitution of Committee:

Sr. No.	Name of Member	Designation	Role Committee
1.	Dr. B. S. Yadav	Principal	Chairman
2.	Dr. B. S. Gaikwad	Head, Department of Botany	Coordinator
3.	Prof. Dr. V.C. Thanage	Coordinator, IQAC	Member
4.	Dr. N. G. Shinde	Asst. Prof.	Member
5.	Dr. G. S. Shinde	Asst. Prof.	Member
6.	Dr. S. K. Bansode	NSS Program Officer	Member
7.	Dr. M.B. Khose	SDO	Member
8.	Dr. A. C. Naikwade	College Registrar	Member



**Kopergaon Taluka Education Society's
K. J. Somaiya College of Arts, Commerce
and Science, Kopergaon, (M.S.)
423601**

Green Campus, Environment and Energy Usage *Policy and Procedures*

**Internal Quality Assurance Cell
(IQAC)**





Green Campus, Environment and Energy Usage

Introduction:

In the pursuit of progress and development, we have witnessed the deterioration of our natural environment. To achieve sustainable development, it is crucial to raise awareness about the consequences of exploiting nature and implement strategies to conserve it. As an institution of higher education, K. J. Somaiya College of Arts, Commerce and Science, Kopergaon recognizes its responsibility in nurturing responsible youths and fostering a green and eco-friendly campus. Our goal is to redefine our environmental culture and develop sustainable solutions to address environmental, social, and economic challenges.

Scope:

The policies on green campus, energy, and environment aim to inspire stakeholders to spearhead positive change for sustainable development. This initiative involves the comprehensive review of infrastructural and administrative functions to ensure eco-friendly practices and energy conservation within and around the college premises.

Objectives:

1. Integrate environmental concerns into policies, plans, and programs across various activities.
2. Promote efficient and responsible use of environmental resources, including energy and water.
3. Adopt best environmental practices to minimize waste and its impact on the environment.
4. Increase awareness about environmental concerns among stakeholders and the local community.
5. Protect and conserve ecological systems and resources.

Strategies:

1. Establish a greener campus by prioritizing tree planting initiatives.
2. Embrace energy conservation and renewable energy sources.
3. Implement efficient water management practices.
4. Develop an effective waste management system.
5. Collaborate with stakeholders and the local community to foster environmental awareness.

Guiding Principles:

We are committed to working with stakeholders to foster a culture of self-sustainability and an eco-friendly campus. Our time-bound strategies are designed to implement green campus initiatives effectively. We have formed committees comprising faculty from various departments, in consultation with the IQAC, to develop principles for a clean and green campus. The committees will execute the following initiatives:

1. Conduct periodic green, environmental, electrical, fire safety, and energy audits of the Policy Document, IQAC, K. J. Somaiya College, Kopergaon

campus.

2. Celebrate "Vanmahostav" and regularly plant diverse plant species with the help of stakeholders.
3. Sensitize stakeholders to reduce the use of polluting products and opt for environmentally friendly alternatives.
4. Promote cleanliness through Swachhata Pandharwada and Swachh Bharat Abhiyan for a healthy life.
5. Organize various awareness campaigns, seminars, workshops, and competitions related to environmental issues.
6. Implement the Clean and Green Campus Policy through well-defined initiatives.

Environment and Eco-Friendly/Green Campus:

- Expand green cover through extensive plantation.
- Develop a Cactus Garden to preserve local and exotic xerophytic plant species.
- Create pedestrian-friendly roads using paver blocks.
- Establish a botanical garden and nursery for medicinal plants.

Energy Conservation:

- Implement actions to reduce greenhouse gas emissions from energy consumption.
- Opt for energy-efficient lamps and equipment in various areas.
- Utilize solar water heaters.
- Encourage the use of battery-operated or public transport vehicles.

Waste Management:

- Segregate waste at source with designated dry and wet dustbins.
- Utilize vermicomposting units for organic waste disposal and organic manure production.
- Collaborate with waste management agencies to handle waste, e-waste, and biogas generation from food waste.
- Minimize plastic usage with the 4 'R' principle: refuse, reduce, reuse, and recycle.
- Promote a paperless/less paper work culture and practice paper recycling in administration.

Water Management:

- Adopt water-saving measures like rainwater harvesting and drip irrigation.
- Treat domestic/laboratory effluent using Sewage Treatment Plants (STP).
- Utilize recycled water for plant irrigation.
- Implement water-efficient taps and introduce septic tanks and soak pits.

HEI will consistently display instructions/alerts/slogans throughout the campus to promote water, energy, and waste conservation for sustainable development. We are committed to continuous improvement and regular policy reviews to ensure compliance and relevance to our green campus initiatives.

Committee:

Chairman

Dr. B. S. Yadav (Principal)

Members:

Prof. V.C. Thange (IQAC Coordinator)

Dr. B. S. Gaikwad

Dr. G. S. Shinde

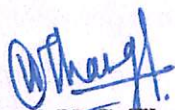
Dr. N. G. Shinde

Dr. R. D. Gawali

The institution's Green Campus, Environment and Energy Usage Policy is subject to continuous improvement and upgradation to remain relevant and compliant. Regular reviews are conducted to ensure continued effectiveness

Date: 30.06.2018

Place: Kopergaon



Prof. V.C. Thange

Coordinator
IQAC, K. J. Somaiya College
Kopergaon, Dist. A.Nagar



Dr. B. S. Yadav

Principal
K. J. Somaiya College of Arts
Commerce & Science, Kopergaon



Green Campus Initiatives (2018-19 to 2022-23)

Introduction

The K.J. Somaiya College of Arts, Commerce and Science, Kopergaon is committed to sustainability and environmental stewardship. As part of this commitment, several green campus initiatives have been implemented to reduce the environmental impact of campus operations and promote sustainability among our stakeholders. This report provides an overview of these initiatives and their impact on campus sustainability.

The following report outlines the green initiatives undertaken by our college to promote sustainability and environmental responsibility on campus. These initiatives encompass various aspects, including energy conservation, waste management, transportation and educational programs. By implementing these measures, the college aims to reduce its carbon footprint, promote awareness of environmental issues and create a culture of sustainability among students, faculty and staff.

1. Energy Conservation

One of the prime focuses of our green campus initiatives is energy conservation. The college has implemented several measures to reduce energy consumption, including

- Installation of energy-efficient LED lighting systems across campus buildings and path.
- Integration of renewable energy sources such as solar panels are fitted on college building roof for light generation.
- Conducting energy audits every year to identify areas for improvement and efficiency.
- Upgrading of heating, ventilation and air conditioning systems to more energy-efficient models.

These efforts have resulted in significant reductions in energy consumption and greenhouse gas emissions on campus.

2. Waste Management

Waste Reduction and Recycling is another key aspect of our green campus initiatives which is achieved through waste reduction and recycling. The college has implemented a comprehensive recycling program that includes:

- Placement of recycling bins throughout campus buildings and outdoor areas
- Separation of waste into degradable and non-degradable waste.



- Implementation of composting initiatives by vermicomposting and vermiculture for degradation of food and plant's waste generated in the campus.
- Education and awareness campaigns to encourage recycling and waste reduction among students, faculty and staff
- Establishment of recycling programs for paper, plastic, glass and electronic waste.
- Reduction of single-use plastics through the awareness and promotion of reusable alternatives.
- Collaboration with local waste management facilities like city municipal co-operation to ensure proper disposal and recycling of waste materials.

These efforts have led to an increase in recycling rates and a reduction in the amount of waste sent to landfills.

3. Sustainable Transportation

- Promotion of use alternative modes of transportation such as walking and biking.
- Provision of bike-sharing programs while coming to college.
- Promotion of the use of public transportation.
- Restricted entry of automobiles and all kinds of vehicle in the college campus as prevention measure of air and sound pollution.
- In context to environmental conservation, "No Vehicle Day" is arranged on Thursday of every month in the college campus.
- Use of public transportation concession passes by the students and employees
- Implementing carpooling and ridesharing programs to reduce the number of single-occupancy vehicles on campus

These initiatives have helped reduce greenhouse gas emissions from transportation and promote alternative modes of transportation.

5. Educational Programs and Awareness

- Incorporation of a course on Environmental Awareness into the curriculum across all disciplines.
- Hosting workshops, seminars and guest lectures on environmental topics.
- Participation of students in NSS and NCC activity for environmental sustainability and activism.



- Student participation in National and International initiatives by celebrating Earth Day and World Environment Day.

Furthermore, college campus was developed by maximizing natural day lighting and ventilation to reduce the need for artificial lighting systems. There is also integration of green spaces and landscaping to enhance biodiversity and mitigate urban heat landmass effects. These practices have resulted in the construction of more sustainable and environmentally friendly college campus.

6. Landscaping with Trees and Flowering Plants

In response to the escalating concerns regarding environmental degradation and climate change, our college has initiated the prominent endeavors in this regard is the creation of green spaces through tree plantation and gardening within the college campus. We strive to create a greener, healthier and more sustainable campus environment for present and future generations. The tree plantation initiative was meticulously planned and executed by a collaborative effort involving the college administration, faculty members and students. The following steps were undertaken:

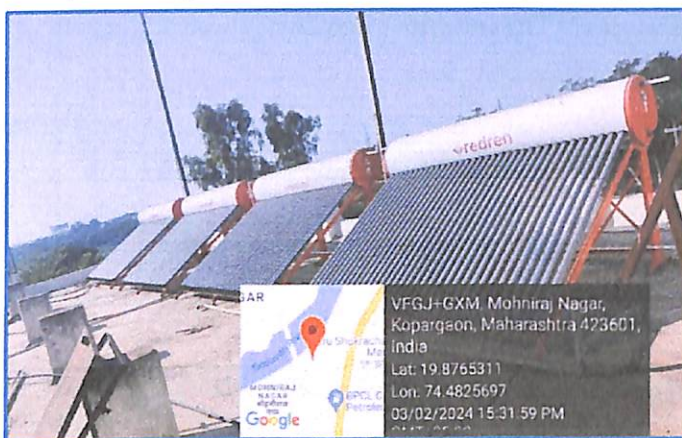
Wild tree plant species such as Neem, Coconut, *Delonix*, *Peltophorum*, *Eucalyptus*, *Terminalia*, *Polyalthia*, Mango, Banyan are carefully chosen and planted to increase the greenery in the college campus. Botanical garden is developed at the entrance of the college main building and is the attractive feature of the college. In the college campus various trees, flowering and medicinal plants are maintained with continuous monitoring and care through regular watering, mulching, pruning, and protection from pests and diseases. The tree plantation initiative has not only increased the aesthetic appeal but also inculcated the environmental stewardship among students, faculty and staff. By fostering a culture of environmental stewardship and community engagement, we strive to create a greener, healthier and more sustainable campus environment.

Conclusion

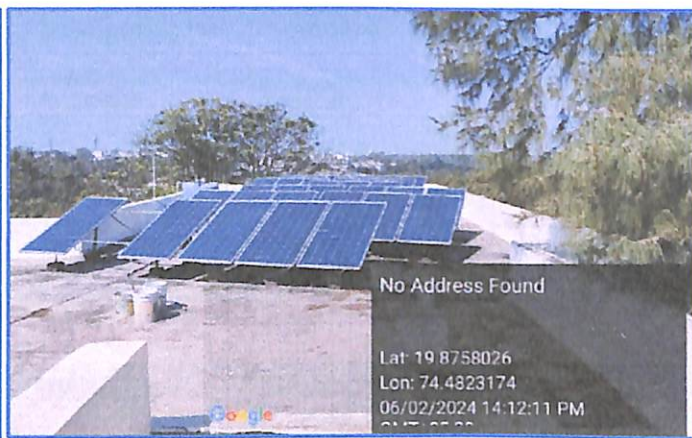
In conclusion, the K.J. Somaiya College of Arts, Commerce and Science, Kopergaon is dedicated and committed to fostering a culture of sustainability and environmental stewardship by reducing its environmental impact through a variety of green campus initiatives. Through a combination of energy conservation measures, waste management practices, sustainable transportation options, educational programs and community partnerships, the college strives to lead by example in promoting a greener future.



Continued efforts and collaboration will be essential in achieving our sustainability objectives and ensuring a thriving environment for current and future generations. Moving forward, we will continue to explore new opportunities for enhancing our sustainability efforts and promoting environmental stewardship throughout the campus community.



Solar Water Heater System



Solar Panel Ingrid System



Godatarang Green Club Activity:

Raising cuttings, saplings and seedlings of ornamental plants.





College Campus Flora

Sr. No	Name of the Species	Family	Vernacular Name	Number of Plants
1.	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	Caesalpiniaceae	Gulmohar	22
2.	<i>Peltophorum pterocarpum</i> (DC.) K.Heyne	Caesalpiniaceae	Sonmohar	24
3.	<i>Psidium guajava</i> L.	Myrtaceae	Guava	01
4.	<i>Eucalyptus globulus</i> Labill.	Myrtaceae	Nilgiri	06
5.	<i>Switenia macrophylla</i> King	Meliaceae	Mohagani	02
6.	<i>Casuarina equisetifolia</i> L.	Casuarinaceae	Suru	03
7.	<i>Emblica officinalis</i> Gaertn	Phyllanthaceae	Amla	01
8.	<i>Achras sapota</i> (L.) P.Royen	Sapotaceae	Chikku	01
9.	<i>Syzygium cumini</i> (L.) Skeels.	Myrtaceae	Jambhul	02
10.	<i>Milingtonia hortensis</i> L.f.	Bignoniaceae	Buch	09
11.	<i>Santalum album</i> L.	Santalaceae	Sandle	01
12.	<i>Tamarindus indica</i> L.	Fabaceae	Chinch	12
13.	<i>Terminalia catappa</i> L	Combretaceae	Badam	01
14.	<i>Gliricidia epium</i> (Jacq.) Kunth ex Walp.	Fabaceae	Giripusha	02
15.	<i>Bauganvella spectabilis</i> Willd.	Nyctaginaceae	Boganvel	17
16.	<i>Laucana leucacephala</i> (Lam.) de Wit	Mimosaceae	Subabhul	03
17.	<i>Polyalthia longifolia</i> Sonn.	Annonaceae	Ashok	55
18.	<i>Azadirachta indica</i> A.Juss.,	Meliaceae	Neem	33
19.	<i>Samania saman</i> Jacq. Merr.	Fabaceae	Rain tree	01
20.	<i>Havea brasiliensis</i> Müll.Arg.	Euphobiaceae	Rubber plant	02
21.	<i>Oriodoxa regia</i> O.F.Cook	Arecaceae	Royal palm	10



22.	<i>Terminalia bellerica</i> (Gaertn.) Roxb.	Combretaceae	Behada	01
23.	<i>Terminalia chebulla</i> Retz.	Combretaceae	Hirda	01
24.	<i>Pongamia pinnata</i> (L.) Pierre	Fabaceae	Karanj	02
25.	<i>Prosopis cineraria</i> (L.) Druce	Mimosaceae	Shami	02
26.	<i>Mangifera indica</i> L.	Anacardiaceae	mango	01
27.	<i>Albizia lebbek</i> (L.) Benth.	Fabaceae	Shiris	01
28.	<i>Cocos nucifera</i> L.	Arecaceae	Coconut	57
29.	<i>Aegle marmelos</i> L.	Rutaceae	Bel	01
30.	<i>Tectona grandis</i> L.f	Verbenaceae	sag	01
31.	<i>Chrysalidocarpus lutescens</i> H. Wendel.	Arecaceae	Areca palm	21
32.	<i>Terminalia mantaly</i>	Combretaceae	Dancing tree	47
33.	<i>Bauhinia variegata</i> (L.) Benth.	Fabaceae	Kanchan	01



Medicinal Plants in College Campus

Sr. No.	Name of the Medicinal Plant	Local Name	Plant Part Used
1.	<i>Abrus precatorius</i>	Gunj	Flowers, Seeds, fruit
2.	<i>Acacia catechu</i> .	Khair	Bark
3.	<i>Acacia concinna</i>	Shikekai	Flowers, Seeds, fruit
4.	<i>Adhatoda vasica</i>	Adulsa	Flowers, Leaves
5.	<i>Aegle marmelos</i>	Bael	Fruit, Leaves
6.	<i>Aloe vera</i>	Korphad	Leave pulp
7.	<i>Asparagus racemosus</i>	Shataavari	Root tubers
8.	<i>Baliospermum montanum</i>	Danti	Seed, Latex, Root
9.	<i>Bignonia undulata</i>	Raktarohida	Bark
10.	<i>Bixa orellana</i>	Shendri	Root, Leaves, Fruit & Bark
11.	<i>Bryophyllum pinnatum</i>	Panphuti	Leaves
12.	<i>Caesalpinia bonduc</i>	Sagargota ,	Seeds, Leaf, Bark
13.	<i>Careya arborea</i>	Kumbha	Bark, Seeds, Flowers
14.	<i>Cassia fistula</i>	Bahawa	Flowers, Seeds
15.	<i>Chlorophytum borivilianum</i>	Safed Musali	Roots
16.	<i>Cissus quadrangula</i>	Kandwel	Flowers, Seeds, fruit
17.	<i>Commiphora mukul</i>	Guggul	Stem, Leaf
18.	<i>Cymbopogon flexuosus</i>	Gavati Chaha	Leaves
19.	<i>Embelia ribes</i>	Wavdinga	Seeds
20.	<i>Emblica officinalis</i>	Aawla	Seeds, fruit, Bark, Leaves
21.	<i>Feronia limonia</i>	Kawath	Fruit, Leaves, bark
22.	<i>Ficus racemosa</i>	Umbar	Fruit, Flower, Bark, Leaves
23.	<i>Lawsonia inermis</i>	Mehandi	Leaves
24.	<i>Madhuca indica</i>	Mahu	Flowers, Seeds, fruit
25.	<i>Mimosa pudica</i>	Lajalu	Leaves
26.	<i>Mimusops elengi</i> .	Bakula	Bark, Flowers, Fruit
27.	<i>Myristica fragrans</i>	Jayphal	Seeds
28.	<i>Nerium indicum</i>	Kanher	Root



29.	<i>Nyctanthes arbor-tristis</i>	Parijatak	Leaves, Seeds
30.	<i>Ocimum sanctum</i>	Tulas	Seeds, Root, Leaf
31.	<i>Radermachera xylocarpa</i>	Kharshing	Root, Bark
32.	<i>Rauvolfia serpentina</i>	Sarpagandha	Root, Bark
33.	<i>Sapindus mukorossi</i>	Ritha	Flowers, Seeds, fruit
34.	<i>Saraca asoca</i>	Seeta Ashok	Bark, Flower
35.	<i>Scaevola frutescens</i>	Bhadraksh	Leaves, Fruit
36.	<i>Semecarpus anacardium</i>	Biba	Flowers, Seeds

Ornamental and Flowering plants of our Garden

Sr. No.	Name of the Plant	Common Name
1	<i>Aster amellus</i>	Aster
2	<i>Hibiscus rosa-sinensis</i>	Hibiscus
3	<i>Tabernaemontana Divaricata</i>	Chandni
4	<i>Nyctanthus arbor-tristis</i> Linn	Night Jasmine
5	<i>Jasminum sambac</i>	Jasmine
6	<i>Bougainvillea glabra</i>	paper flower
7	<i>Lantana camara</i>	Lantana
8	<i>Catharanthus roseus</i>	Periwinkle
9	<i>Jatropha gossypifolia</i> Linneus	Jatropha
10	<i>Allamanda cathartica</i>	Allamanda
11	<i>Magnolia champaca</i>	Champa
12	<i>Ixora coccinea</i>	Ixora
13	<i>Jasminum multiflorum</i>	Jasminium
14	<i>Galphimia gracilis</i>	Galphimia
15	<i>Nerium indicum</i>	Oleander
16	<i>Rosa rubiginosa</i>	Rose
17	<i>Chrysanthemum multifolium</i>	Chrysanthemum
18	<i>Saussurea obvallata</i>	Night queen



Organizing Tree Plantation Programs

Our K.J. Somaiya College of Arts, Commerce & Science, Kopergaon, is actively engaged in a plantation program through its NSS unit, extending beyond the college campus to villages such as Anjanapur, Dauch Bk, Ghari and Dauch Kd. These villages have been adopted by our college to promote environmental awareness, resulting in the planting of over 901 trees through the NSS unit in both 2022-23 and 2023-24. Furthermore, within our college campus, we have planted more than 500 trees between 2018 and 2023, as detailed in the table below showcasing our tree plantation efforts.

Table 1: Plantation done in the academic years by NSS Unit of our College.

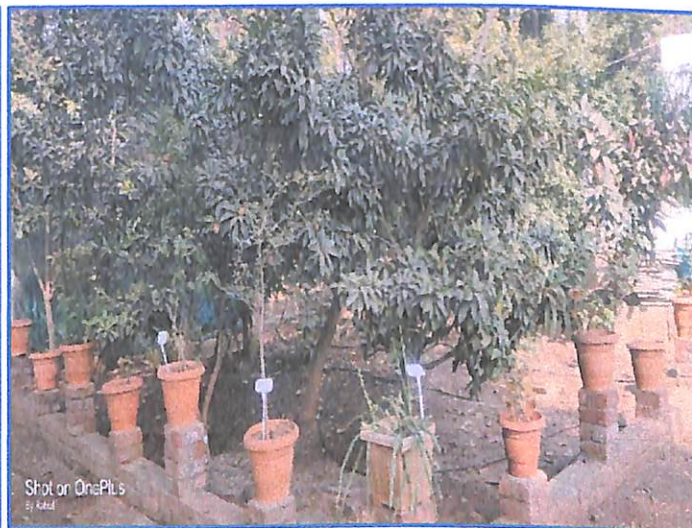
Sr. No	Year	Plantation of number of Plants	Total no. of plants
1.	2017-18	20	728
2.	2018-19	45	
3.	2019-20	80	
4.	2020-21	160	
5.	2021-22	200	
6.	2022-23	223	

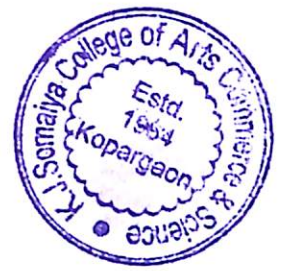




Establishment of Oxygen Park

Our college boasts a lush green campus adorned with carefully selected plant species such as Tulasi, Neem Trees, Areca Palm and Banyan trees, strategically chosen to enhance oxygen levels and create a refreshing atmosphere filled with fresh air.







Kopargaon Taluka Education Society's
K. J. Somaiya College of Arts, Commerce and Science, Kopargaon

Report on alternate sources of Energy and Energy Conservation Measures

2018-19 to 2022-23

Introduction:

K. J. Somaiya College of Arts, Commerce and Science, Kopargaon is an educational institution that recognizes the alternate sources of renewable energy and energy conservation measures. In recent years there has been a growing concern about the fast depletion of fossil fuels and burning of fossil fuels impact on environment. To solve this problem college has implemented different measure to promote the use of alternate source of energy (PV system) and conserve energy.

Alternate Sources of Energy:

K. J. Somaiya College of Arts, Commerce and Science, Kopargaon has taken several initiatives to promote the alternative source of energy. The college has installed a solar power system to generate electricity, which has significantly reduced its dependence on traditional energy sources. Two separates on grid photovoltaic solar power system are installed at two separate roof top bearing 10KVA capacity of each connected in grid of MSEDCL through NET metering. Cleaning of solar panel are regularly done. We provide solar water heater facilities to ladies' hostel and boy's hostel. This will also help to reduce greenhouse gas emission mitigating environmental damage.

Energy Conservation Measures:

K. J. Somaiya College of Arts, Commerce and Science, Kopargaon has implemented several energy conservation measures to reduce energy consumption. The college has replaced traditional bulbs and FTL tubes with LED tube lights. In college total LED tube light are 280. The College has installed solar street lamps having 35 numbers in ladies hostel main gate premises. The energy conservation measures are,





- Turn off your monitor when you leave the table.
- Whenever possible, shutdown rather than logging off
- Turn off unnecessary lights, air conditioner and use day light instead.
- Keep lights off in classrooms, lecture halls when they are not in use.
- Use fans only when they are needed.

Conclusion:

K. J. Somaiya College of Arts, Commerce and Science, Kopergaon is a best example for other educational institution by implementing various alternate renewable energy sources and energy conservation measures. The college has not only reduced carbon foot print but also has saved significant amount of money on energy bills. By promoting use of alternate energy sources to conserve energy. The college is contributing to a sustainable and bright futures.

7.1.2 The Institute has facilities for alternate energy sources and energy conservation measures:

Initiatives for alternate source of energy

Wheeling to Grid with proof: Use of solar energy


The college is having two separates on grid photovoltaic solar power system installed at two separate roof top bearing 10KVA capacity of each connected in grid of MSEDCL through NET metering. Each solar plant produces 900 to 1700 units of electric power generation per month on average. We are exporting solar energy to MSEDCL grid which saves our energy expenditure by,

1. By reducing penalty against low power factor.
2. Demand charges also reduce to minimum.

Detail of Solar Generation:-

- Detail of Renewable Energy: Roof Top Solar Power online Grid system
- Capacity of Plant: **20 KW** (each of 10 KW)
- Number of Panels: $32 + 31 = 63$
- Average monthly generation: **1800 to 4000** units per month
- Average generation per annum: **42000 KW**
- Total cost of solar system including GST: $5,70,000 + 700000 = 12,70,000$


Coordinator
(Energy Audit Committee)


Coordinator
IQAC, K. J. Somaiya College
Kopergaon, Dist. A.Nagar




Principal
K. J. Somaiya College of Arts
Commerce & Science, Kopergaon



Today OUR K.J.Somaiya COLLEGE has started a Powerplant capacity of 10 KW.Solar power plants was inaugurated by espicious hands of Hon. Baviskar MSEB Kopergaon, and Hon.Principal Dr.B.S.Yadav Sir today. A gaint leap toward renewable energy Resources Saving of one unit is generating two units of electricity.



Kopergaon, Maharashtra, India
KJS College Rd, Mohniraj Nagar, Kopergaon, Maharashtra
423601, India
Lat 19.874241°
Long 74.482572°
05/01/22 09:52 AM



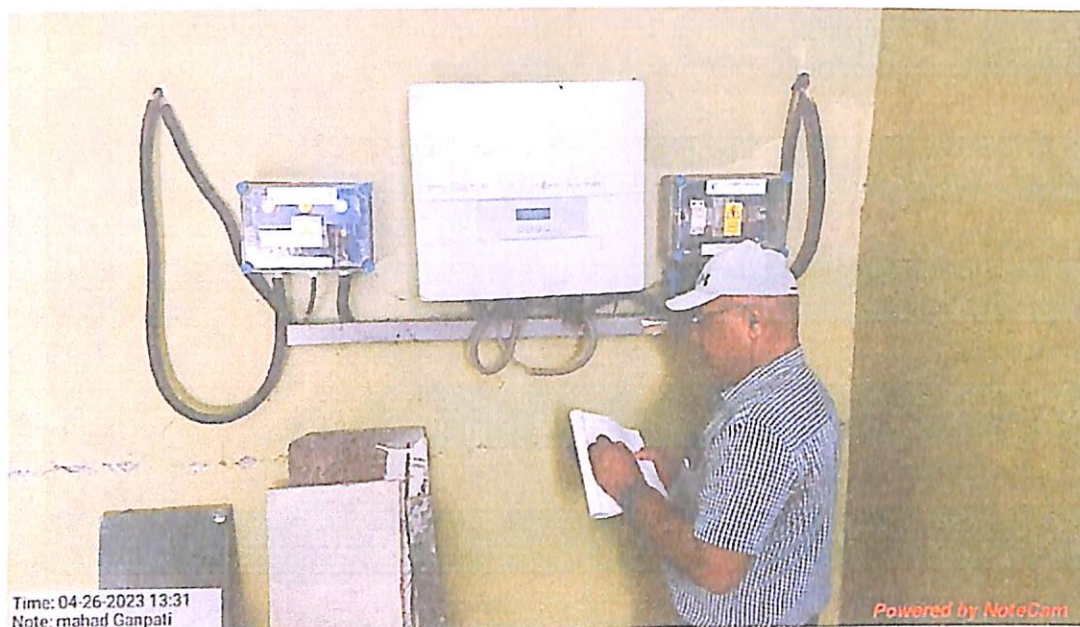


10KW Solar PV system installed on roof top of Science and Technology building.

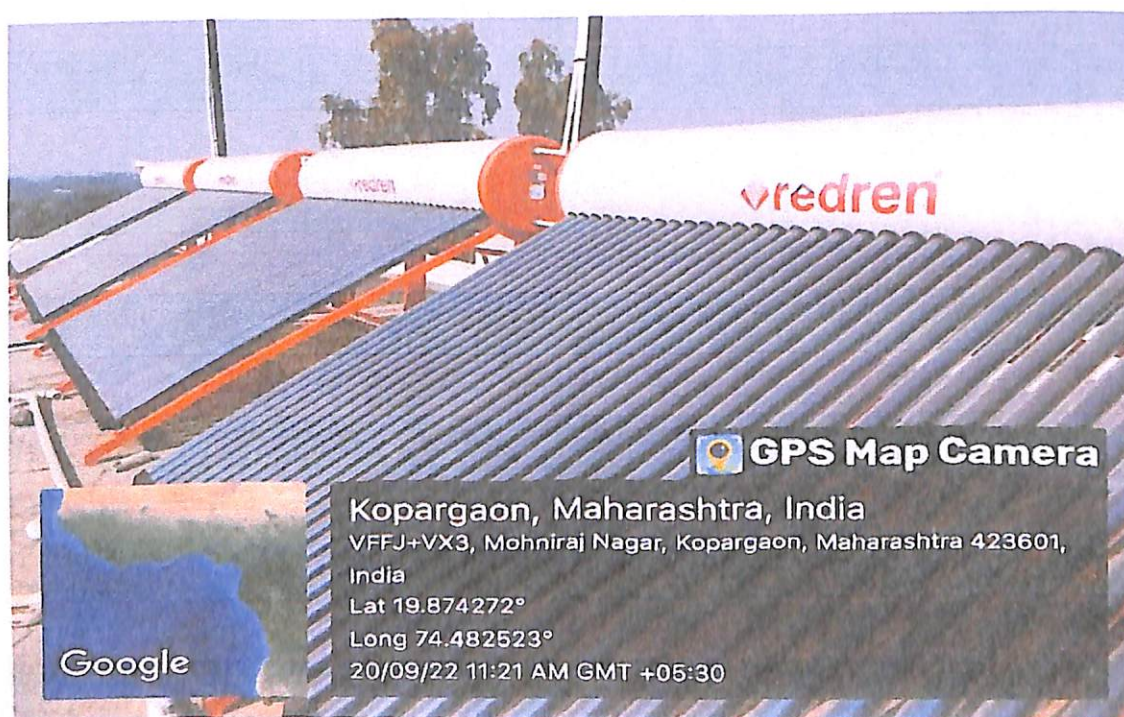


10KW Solar PV system installed on roof top of Library Building.



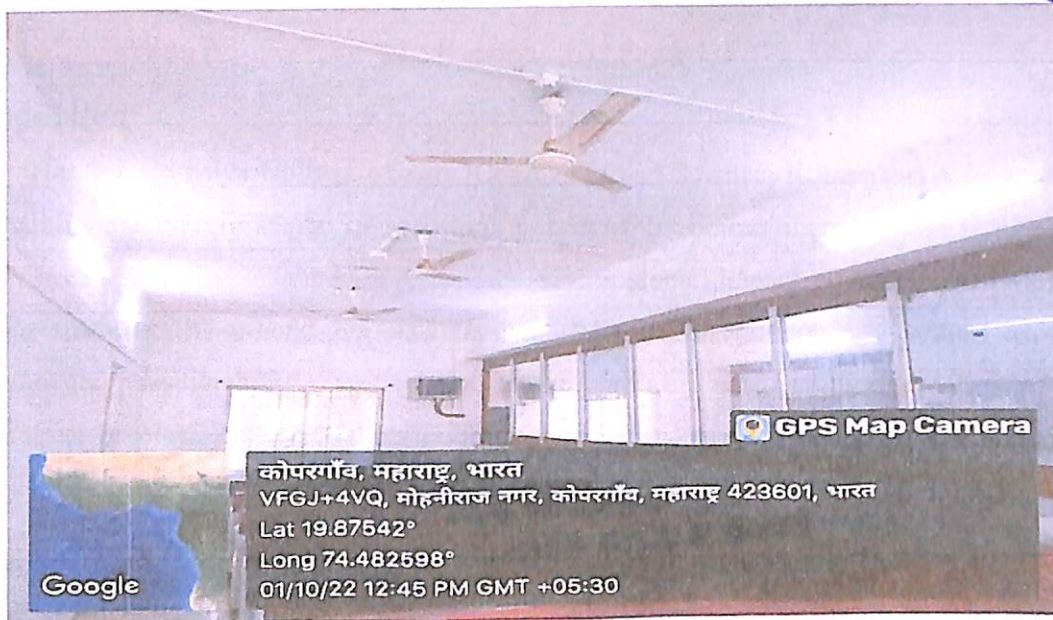


Energy Auditor Mr. B.L. Deokar was doing audit of energy in the year 2022-2023



Solar water heater installed on rooftop of Ladies Hostel





LED tube light in the Computer Laboratory



LED tube light in the Seminar Hall





Management of Degradable and Non-degradable Solid Waste

2018-19 to 2022-23

Introduction:

The K.J. Somaiya College of Arts, Commerce and Science, Kopergaon is committed to sustainability and environmental stewardship. As part of this commitment, several green campus initiatives have been implemented to reduce the environmental impact of campus operations and promote sustainability among our stakeholders. Waste management is a critical aspect of environmental sustainability, particularly within educational institutions. Proper waste management involves the segregation, collection, recycling, and disposal of waste materials to minimize environmental impact. In this report, we will focus on the management of degradable and non-degradable waste in our college.

Degradable Waste:

Degradable waste refers to organic materials that can decompose naturally over time. In a college setting, degradable waste commonly includes food scraps, paper, yard waste, and other biodegradable materials.

Management Strategies:

Segregation at Source: Encourage students and staff to separate degradable waste from non-degradable waste at the source. This can be facilitated by providing separate bins for organic waste in common areas and dining halls.

Composting: Establish a composting system on campus to manage organic waste effectively. Composting can be done using various methods, including aerobic and anaerobic composting. The resulting compost can be used as fertilizers for campus gardens or landscaping projects.

Awareness and Education: Conduct awareness campaigns and educational programs to promote the importance of segregating degradable waste and the benefits of composting. This can include workshops, seminars and informational materials distributed across campus.

Collaboration with Local Authorities: Collaborate with local authorities or waste management agencies to ensure proper disposal of compostable waste. This may involve arranging for regular pickups or drop-off points for compostable materials.

Non-Degradable Waste:



Non-degradable waste, also known as solid waste, includes materials that do not easily decompose in the environment. Common examples include plastics, glass, metals, and certain types of packaging materials.

Management Strategies:

Recycling Programs: Implement recycling programs on campus to manage non-degradable waste effectively. Provide separate bins for recyclable materials such as plastics, glass, and paper in strategic locations across the college.

Reduce and Reuse: Promote the principles of reduce and reuse to minimize the generation of non-degradable waste. Encourage the use of reusable water bottles, coffee mugs, and bags among students and staff. Implement policies to reduce the consumption of single-use plastics and packaging materials.

E-waste Management: Establish protocols for the proper disposal of electronic waste (e-waste) such as old computers, printers, and mobile phones. Partner with certified e-waste recycling companies to ensure responsible disposal and recycling of electronic devices.

Awareness Campaigns: Raise awareness about the environmental impact of non-degradable waste through campaigns, workshops, and events. Encourage students and staff to adopt sustainable practices and take responsibility for their waste generation.

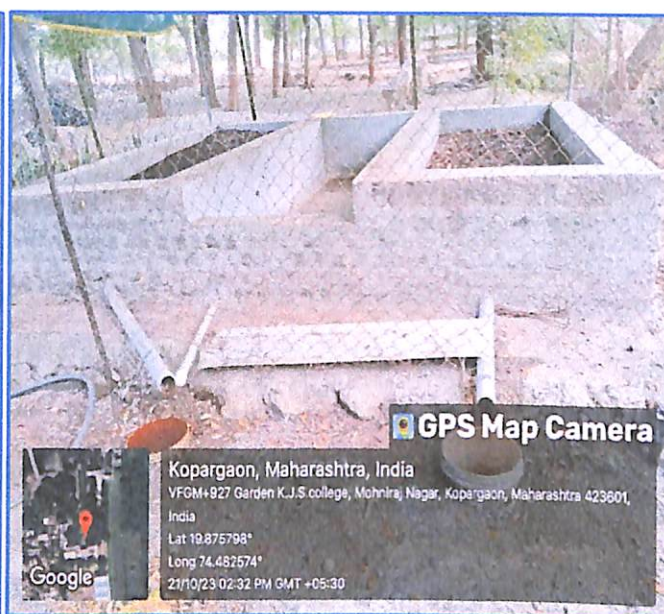
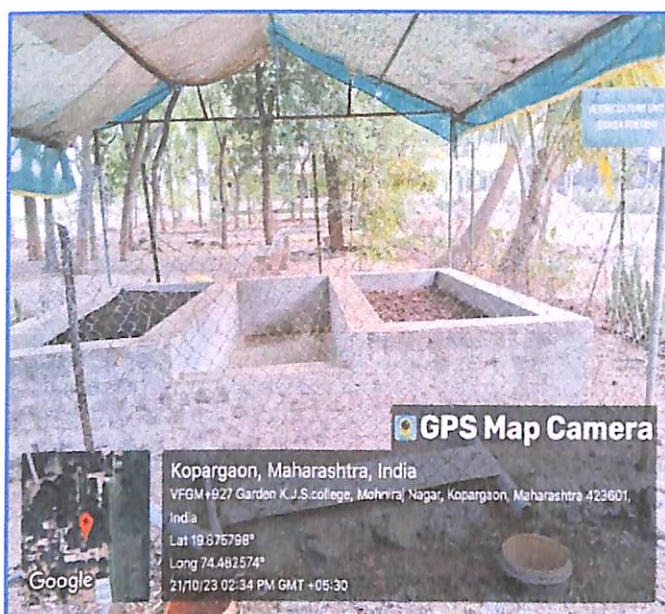
Conclusion:

Effectively managing degradable and non-degradable waste in college requires a combination of infrastructure, education, and community engagement. By implementing the strategies outlined in this report, our college can reduce its environmental footprint, promote sustainability, and inspire future generations to adopt eco-friendly practices.



Degradable Solid Waste Management using Vermiculture and Vermicomposting

Our college operates a Vermicomposting Unit managed by the Department of Zoology, where plants wastes is collected for composting. This composting process is biocompatible and derived from natural sources. Additionally, the campus adheres to a policy of avoiding synthetic fertilizers and insecticides, promoting sustainability and environmental consciousness in our practices.





Rain Water Harvesting Unit:

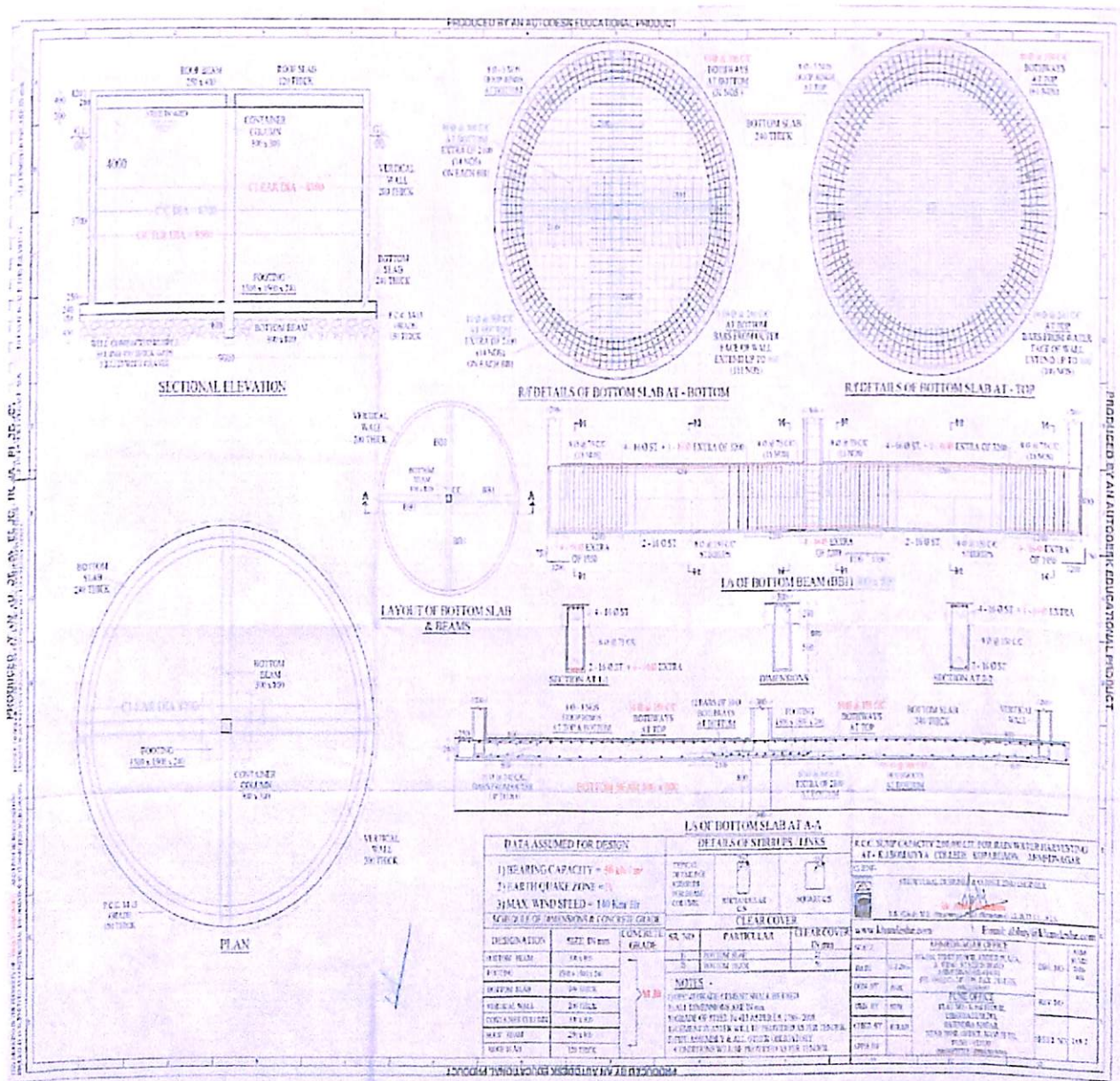
K. J. Somaiya College of Arts, Commerce and Science situated on the bank of holy river Godavari, with Latitude of 19.873691⁰ and Longitude of 74.482107⁰. At Kopergaon there is deep soil; rock found at very deep level. Upper strata are having soil in the form of porous and holds water which is suitable for crops. The ground water occurs in the region is very hard having too much salty nature. Considering all these aspects Rainwater Harvesting Unit constructed in the college campus to fulfill the increasing need of water of college and to start the journey towards self dependent regarding need of water.

The total area of the college campus is seven acers. The campus consists of various academic buildings including 'Padmabhushan Karamsibhai Somaiya Science and Technology Bhavan', separate hostels for girls and boys, large Indoor Game Hall, Academic and Library building which allows huge roof areas to collect rain water; by considering this in the College campus in front of the '**Padmabhushan Karamsibhai Somaiya Science and Technology Bhavan**' two huge water storage concrete tanks of two lakhs capacity each are built. During rain initial water is allowed to be drained off and later after the complete cleaning of roof, water from Science and Technology building and from Indoor game hall collected and channelize into the storage tanks to avoid turbidity. Once the tanks get filled with rainwater, about four lakhs liter of water is available for use every year. The excess of rainwater after filling of tanks are further used for refilling of bores in campus. This water is used in the laboratory for practical purpose, for the plants in garden, for preparation of distil water and conductivity water in laboratory and sometimes for washrooms. So, this store water is important in order to compensate the annual need of the water. In College there is one dedicated plumber to look after the smooth functioning of the said unit.


Coordinator
Rain Water Harvesting Unit
Kopergaon, Dist. A.Nagar

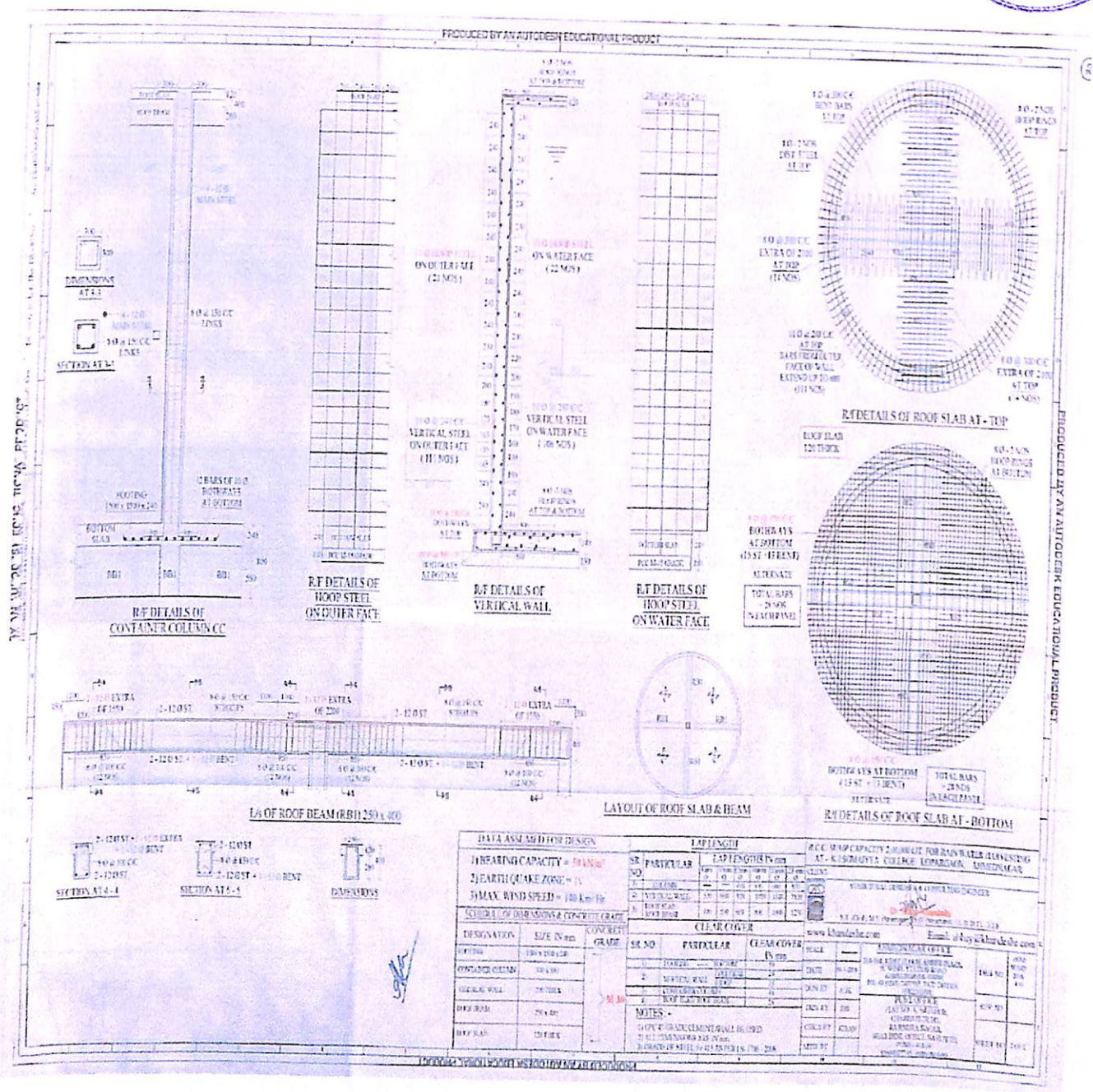



Principal
K. J. Somaiya College of Arts
Commerce & Science, Kopergaon



Water Tank 1 Layout





Water Tank 2 Layout





Rain water harvesting structures

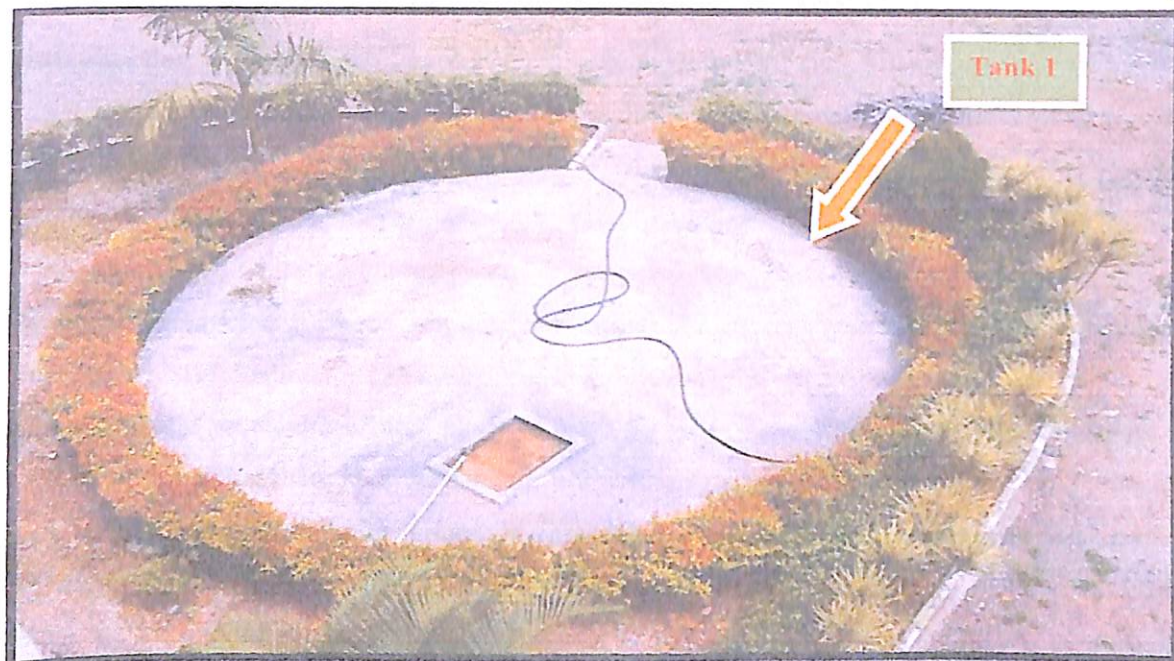


Roof water Harvesting on Roof of Indoor Game

Rain water Harvesting



Rain water harvesting structures



Collected Rainwater in Tank

Arthraj
 Coordinator
 IQAC, K. J. Somaiya College
 Kopergaon, Dist. A. Nagar



Boon
 Principal
 K. J. Somaiya College of Arts
 Commerce & Science, Kopergaon



Water Conservation Initiatives 2018-19 to 2022-23

Introduction

Water is a finite natural resource and with growing populations and increasing demands, it's essential to manage it efficiently. Water conservation is a critical aspect of sustainable environmental management. By conserving water on college campus, our institution K.J. Somaiya College of Arts, Commerce and Science, Kopergaon has set an example for responsible water resource management. Water conservation initiatives in college campuses are essential for promoting sustainability, reducing costs, educating the community and contributing to environmental protection efforts. Colleges play a significant role in shaping future leaders and influencers, making them ideal settings for promoting responsible water management practices.

Our college campus has undertaken several initiatives to minimize water wastage, promote efficient water usage and raise awareness about the importance of water conservation among students, faculty and staff.

Initiatives Implemented:

Installation of Water-efficient Fixtures: The College has replaced older plumbing fixtures with water-efficient alternatives such as low-flow faucets, toilets. These fixtures significantly reduce water consumption without compromising functionality.

Drought-resistant Landscaping: The landscaping around the campus has been redesigned to incorporate drought-resistant plants that require minimal irrigation. This reduces the demand for water in maintaining the campus grounds.

Rainwater Harvesting Systems: Rainwater harvesting systems have been installed across the campus to capture and store rainwater for various non-potable uses such as irrigation, flushing toilets and landscape maintenance. This initiative helps in reducing reliance on municipal water sources.

Educational Campaigns: Regular workshops, seminars, and awareness campaigns are organized to educate students, faculty and staff about water conservation practices. These initiatives focus on simple action by which individuals can take to reduce water wastage in their daily lives.

Grey water Treatment: Grey water that have been released from sinks, showers, and laundry facilities is pretreated for reuse in activities like landscape irrigation. This initiative promotes sustainable water use by maximizing the utilization of available water resources.



Student Involvement: Students are actively involved in water conservation efforts through Green club- Water Conservation Initiatives and Water Stewardship Programme, NSS volunteer programs and NCC cadets dedicated to environmental sustainability. These initiatives provide students with opportunities to contribute to campus-wide conservation efforts and develop leadership skills in sustainability.

Outcomes and Benefits:

Reduced water consumption: The implementation of water-efficient fixtures and conservation measures has led to a significant reduction in overall water usage on campus.

Cost savings: By minimizing water wastage and optimizing water use, the college has achieved cost savings on water bills and maintenance expenses.

Environmental impact: The conservation initiatives have contributed to reducing the college's environmental footprint by conserving water resources and promoting sustainable practices.

Educational impact: Through educational campaigns and student involvement, the college has raised awareness about the importance of water conservation and fostered a culture of environmental responsibility among the campus community.

Conclusion:

Water conservation is a shared responsibility that requires collective action and commitment. Through a combination of infrastructure upgrades, educational initiatives, and community engagement, our college campus has made significant progress in promoting water conservation and sustainability. However, ongoing efforts and continuous improvement are essential to further enhance our impact and ensure the long-term resilience of our water resources.

Installing Effluent Treatment Plant (ETP)

The Effluent Treatment Plant (ETP) situated near the ladies hostel allows wastewater to undergoes filtration through rocks and stones before being discharged into the river. This process helps to further purify the wastewater, ensuring that the discharge meets environmental standards and minimizes ecological impact.

Human Health and Safety Management

Providing group insurance

In order to safeguard the well-being of our staff members, the college has implemented a group insurance policy. Additionally, our staff benefits from a Mediclaim policy. We are also in



the process of introducing an insurance policy for our students to ensure comprehensive coverage for all members of our college community.

Conducting periodic health check-ups

The college conducts annual health check-ups for both students and staff members in collaboration with Ashwamedh Agri & Farms Solution Ltd. Kopergaon, as well as other private medical teams. Dr. Abhijit Achari and Ms. Deepali Achari have been appointed by the management to oversee these periodic check-ups for the well-being of both students and staff.

COVID Vaccination Camp and Detection of HB and blood groups

The staff has LIC insurance policy in relation to accident. Our College collaborates with Shri Saibaba Hospital Shirdi and Rural Hospital, Kopergaon, to organize blood donation camps, which have facilitated the identification of blood groups and hemoglobin levels of our students. The HB checkups have been instrumental in guiding our students towards maintaining a healthy diet. Additionally, the college regularly hosts healthcare camps, where the Department of Sports and Physical Education frequently monitors the BMI of both staff and students, offering exercise recommendations accordingly. Furthermore, vaccination and booster dose programs are organized by the NSS Unit to ensure the health and well-being of the college community.





Organizing awareness campaigns

Lectures and programs are organized to foster health awareness and cultivate positive habits among both students and staff members at our college. Roadshows, facilitated by the NSS unit, are conducted to promote health awareness. Annually, the NSS unit also coordinates camps in nearby villages, focusing on cleaning the village campus and hosting informative lectures to raise awareness among villagers. In February 2022, the NSS unit conducted a camp in Anjanapur village, followed by another camp in Dauch Bk. village in the current year.





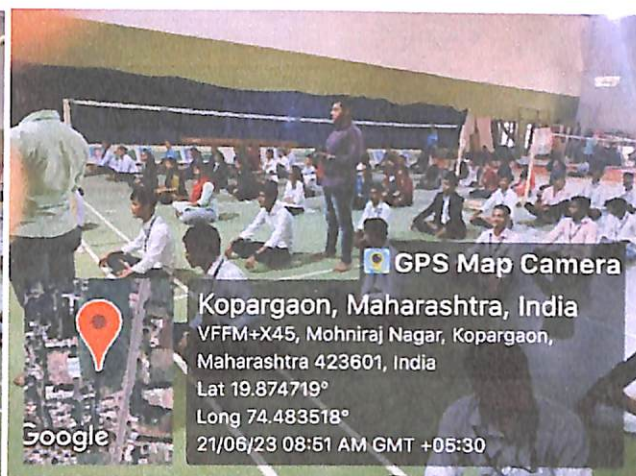
Installing sanitary napkin vending machines

Sanitary napkins are readily available in the girls' common room, recognizing their essential role in maintaining the health and well-being of female students and staff members.

Conducting yoga and meditation sessions

The importance of "health is wealth" is deeply ingrained in both our students and staff members. Our college campus offers extensive sports facilities, including indoor and outdoor stadiums, catering not only to the needs of our students and staff but also to the citizens of Ambajogai. Our dedicated sports faculty provides expert guidance, encouraging everyone to engage in daily exercises such as Yoga and Meditation within the college premises.





Raising awareness about AIDS, cancer and TB

The NSS and NCC units at our college consistently organize street shows and rallies aimed at raising awareness within society about diseases such as Dengue, as well as other significant health issues. Collaborating with the Rural Hospital, Kopergaon, we conduct awareness campaigns addressing HIV/AIDS, Cancer, and Tuberculosis. These initiatives play a crucial role in educating the community and promoting preventive measures against these diseases.

The NSS and NCC units at our college play an active role in promoting awareness about AIDS, Cancer, and TB through a range of initiatives. In addition to organizing poster competitions, wallpapers, and other events, we collaborate with Rural Hospital, Kopergaon, to conduct informative lectures on AIDS and TB prevention and management strategies. These collective efforts are integral to fostering a deeper understanding and awareness of these diseases among students, staff, and the broader community, ultimately contributing to better health outcomes for all.





Arranging blood donation camps

The NSS and NCC unit of our college collaborates with Shri Sainath Hospital, Shirdi, to organize blood donation camps, providing students with an opportunity to contribute to this noble cause. Additionally, our students actively participate in blood donation camps organized by the Panchayat Samiti, Kopergaon, further extending their support to the community's healthcare initiatives.

Sr. No	Year	No. of students who donated blood	Total Blood Bags Donated
1.	2017-18	21	167
2.	2018-19	17	
3.	2019-20	64	
4.	2021-22	65	





Promoting organ donation

The NSS unit of our college spearheaded an enlightening campaign on organ donation during the Winter Camp Period in our college adopted villages. Dr. Abhijit Achari and Dr. Varad Garje from Kopargaon delivered insightful lectures on youth health and aging. Additionally, Mr. Sushant Ghodake, the founder chairman of Suryatej Foundation in Koregaon, facilitated the completion of organ donation forms.

Issuing bus passes

Our college, located in a rural area, serves students from the surrounding neighborhoods. We facilitate the issuance of bus passes for these students by establishing a connection with the local bus depot office, ensuring a seamless process. This initiative has not only boosted our enrollment numbers but also contributed to reducing vehicle usage, thereby aiding in the mitigation of air pollution. The staff from the ST Bus depot generously dedicates three days each year to assist students with pass applications on the college premises.

Ensuring availability of fire extinguishers and first aid boxes

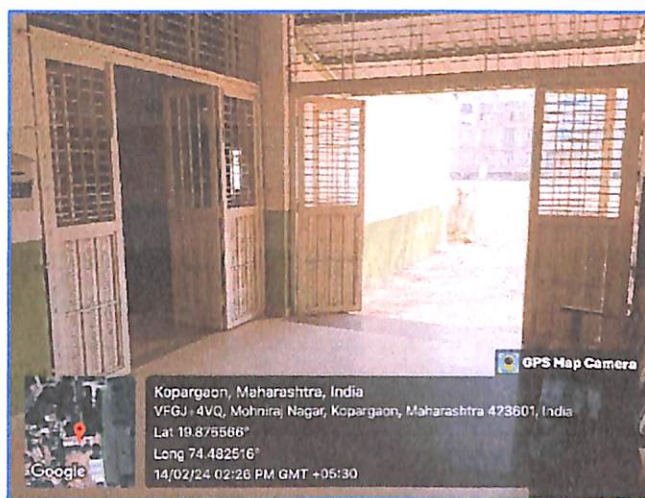
Each laboratory is furnished with standard operating procedures (SOPs) and guidelines for laboratory safety, ensuring a secure environment for experimentation. Additionally, all laboratories are equipped with first aid boxes, and students receive training in first aid and emergency response protocols. First aid boxes are strategically placed in the B.Com building, administrative office, and indoor stadium for immediate access. The college maintains awareness regarding fire safety and has installed fire extinguishers in key locations such as the main building, Science building, B.Com building, and library. Moreover, the Department of Sport and Physical Education is equipped with its own first aid box to cater to the needs of athletes and participants.





Establishing emergency exit doors

Each laboratory is furnished with comprehensive standard operating procedures (SOPs) and safety guidelines. Additionally, all laboratories are equipped with first aid boxes, and students receive training in first aid and emergency response protocols. Moreover, both the Science building and main building are equipped with emergency exit doors to ensure the safety of students in case of any unforeseen situations.



Designating controlled areas for hazardous chemicals

- Safety work instruction when using hazardous chemicals
- Follow safety work instructions when handling hazardous chemicals.
- Refrain from eating, drinking, or smoking while working with hazardous chemicals. Wait until the task is completed and you have washed your hands.
- Familiarize yourself with the location of firefighting equipment in case of emergencies.
- Ensure that hazardous substances adhere to the specifications set by the K.T.E. Society at all times.
- Use the product only for its intended purpose and avoid any misuse for purposes other than what it was designed for.
- Personal chemical safety rules :
 - Wear gloves and safety glasses whenever handling chemicals.
 - Always follow the instructions provided by the instructor.
 - Dispose of waste properly and refrain from pouring it down the drain.



- Ensure that a lab coat is worn at all times during laboratory activities.
- Wear closed-toe shoes for added protection.
- Safety goggles must be worn consistently while working in the laboratory.

Displaying emergency phone numbers

Emergency phone numbers are prominently displayed at the entrance, with additional copies available in the administrative office for quick access.

Sr. No.	Office	Contact No.
1.	Office of the College	9146152000
1.	Rural Hospital	02423-221020
2.	Kopergaon Police Station	02423-222333
3.	Kopergaon ST depot	02423-222258
4.	Kopergaon MSEB	02423-223044
5.	Kopergaon Fire brigade	02423-223124
6.	Women Helpline	022-26111103,1298,103
7.	Ambulance	102,108

Designating assembly points and forming safety task forces

In the event of an emergency, the open area in front of the main building serves as the designated assembly point. Office staff utilize loudspeakers to sound emergency alarms and provide necessary instructions.

Implementing SOPs on laboratory safety and providing first aid boxes

Pre-Operation Inspection: Conduct a thorough inspection of the machine before use to ensure all components are in proper working condition.

Personal Protective Equipment (PPE): Wear appropriate PPE such as safety goggles, gloves, helmets, and hearing protection as necessary.

Training and Qualification: Ensure operators are adequately trained and qualified to operate the specific machine or equipment.

Machine Guards: Always keep machine guards in place and functional to prevent contact with moving parts.



Emergency Stop Procedures: Familiarize operators with emergency stop buttons and procedures to halt operations in case of emergencies.

Lockout/ Tagout Procedures: Follow lockout/ tagout procedures when servicing or maintaining equipment to prevent accidental startup.

Proper Tool Usage: Use the correct tools and equipment for the job and ensure they are in good condition.

Safe Operating Practices: Adhere to safe operating practices outlined in the equipment manual or SOPs, such as proper lifting techniques, load limits, and operating speeds.

Housekeeping: Maintain a clean and organized work area to minimize hazards and ensure safe machine operation.

Reporting Unsafe Conditions: Encourage employees to report any unsafe conditions or malfunctions immediately to prevent accidents.

Regular Maintenance: Perform regular maintenance and inspections on machines and equipment to identify and address potential safety hazards.

Emergency Procedures: Establish and communicate emergency procedures, including evacuation routes and assembly points, in case of accidents or incidents.

By implementing and following these SOPs, organizations can help ensure the safe operation of machines and equipment, reducing the risk of accidents and injuries in the workplace.



Rainwater Harvesting:

Our college has implemented a rainwater harvesting system to conserve precious rainwater resources. This initiative has led to an increase in the earth's water level, benefiting our college's borewell supply. By harnessing rainwater, we have augmented our natural water storage capacity, ensuring a sustainable water source for various college activities. Additionally, we have constructed two underground tanks with a total capacity of approximately 400,000 liters for rainwater harvesting purposes.

Awareness on 'No Use of Plastic':

Our college is committed to maintaining a plastic-free environment and we actively raise awareness among students and staff members through various initiatives. Display boards and other programs are utilized to educate and promote responsible practices. By fostering a culture of sustainability, we strive to minimize our environmental footprint and encourage the adoption of eco-friendly alternatives to plastic.



Placing dustbins throughout premises

In our college campus, every laboratory, cabin and corridor is equipped with dustbins to facilitate proper waste disposal. Specifically, laboratories are provided with separate dustbins for dry and wet waste, ensuring efficient waste segregation. The availability of dustbins throughout the campus helps maintain a garbage-free environment. Additionally, to ensure regular waste collection, a waste material collection van visits the college premises once a day. This systematic approach promotes cleanliness and hygiene within the college campus.



Prohibiting plastic use in canteen

Our college has a beautiful Canteen and has a proper management which looks after the cleanliness of the campus. The garbage is properly collected and utilized in wormy compost plant. The canteen also uses 'Use me' dustbins for the waste in the canteen. It has maintained cleanliness which attracts the attention of the student and the staff.

Our canteen has taken proactive measures to reduce plastic usage within the college campus by opting for environmentally friendly alternatives such as paper glasses and plates, as well as regular steel plates. This initiative has significantly contributed to maintaining a plastic-free environment on campus. By prioritizing sustainable practices, the canteen serves as a role model for promoting eco-conscious behavior among students and staff members.

Using dust-proof chalks

To ensure a conducive learning environment, all classrooms and laboratories are equipped with white and green boards. These boards are complemented by the use of dust-proof chalks and marker pens, minimizing airborne particles and promoting cleanliness. This initiative not only enhances the teaching and learning experience but also contributes to a healthier and more hygienic atmosphere within the educational facilities.

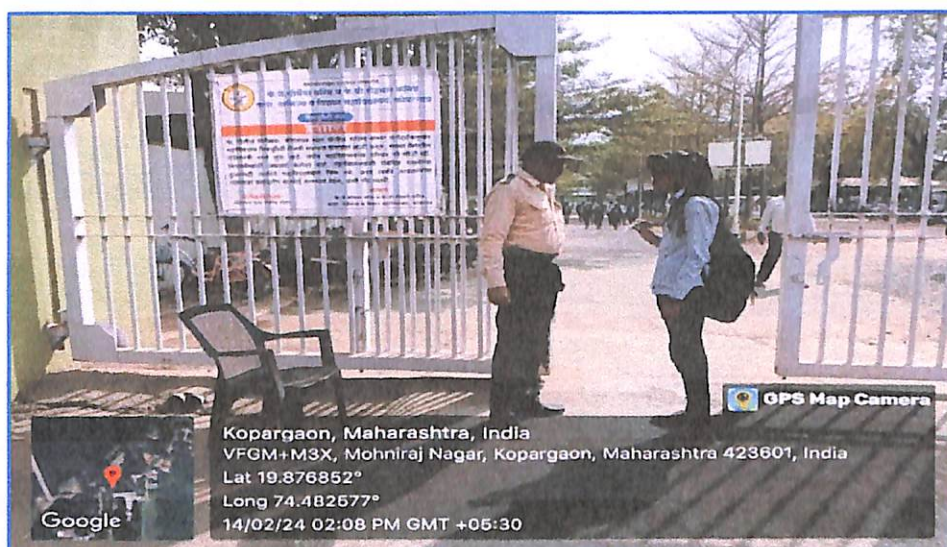
Minimizing paper usage for Xerox or Printing purposes

In our college, we prioritize the conversion of minimum data into soft copies and the digitalization of procedures, significantly reducing the need for printing papers. To further promote sustainability, we have implemented warning stickers on each Xerox/Printing machine,

encouraging conscious paper usage. Moreover, we strive to minimize paper consumption by utilizing already one-sided Xerox papers whenever possible. Through these efforts, we aim to maximize efficiency while minimizing our environmental footprint.

Monitoring student entry and exit

- Our college campus features a main gate and two additional gates leading to the main building, which houses both educational and administrative activities. During annual social events, we utilize two gates to facilitate student movement. Emergency gates are strategically utilized to manage student traffic effectively.
- A dedicated entry register is maintained for non-student visitors to the college, primarily parents attending various events or meetings. Visitors register their names at the gate before being granted access to the campus.
- The security guard plays a pivotal role in ensuring the safety and security of the college premises, diligently monitoring the campus environment at all times.





Prohibiting pressure horns

The use of pressure horns is strictly prohibited for both staff members and students enrolled at our college.



Conclusion

This audit involves extensive team discussions and meetings with key staff members to address various environmental-related topics. The Green Club of our college actively promotes the conservation of resources.

Currently, approximately about 50% of the college campus is dedicated to landscaping, with 40% covered by greenery. While the college demonstrates a significant commitment to environmental responsibility, there is room for improvement in certain areas. The recommendations outlined in this report aim to suggest additional measures for the college to enhance its sustainability practices further.

To begin with, implementing drip irrigation systems and monitoring water flow from taps are crucial steps. Additionally, we strongly recommend the installation of water meters at each building or block and the implementation of water balancing reports. These measures will not only help conserve water but also contribute to the college's overall sustainability goals.

In conducting this green audit of our K.J. Somaiya College of Arts, Commerce and Science, Kopergaon, we have assessed various aspects of the college's operations and their impact on the



environment. Our findings reveal both commendable practices and areas for improvement in promoting environmental sustainability on campus.

On the positive side, our K.J. Somaiya College of Arts, Commerce and Science, Kopargaon has implemented several initiatives aimed at reducing its carbon footprint and conserving resources. These include [list of positive initiatives], which demonstrate a commitment to environmental stewardship. Such efforts are commendable and contribute to creating a more eco-friendly campus environment. Addressing these areas will not only reduce the college's environmental impact but also foster a culture of sustainability among students, faculty, and staff.

To achieve these goals, we strongly followed the following actions:

Implementing energy-efficient measures: Reducing energy consumption, such as upgrading to LED lighting or optimizing HVAC systems.

Enhancing waste management practices: Improving recycling programs, reducing single-use plastics and promoting composting initiatives.

Promoting sustainable transportation: Encouraging alternative transportation options, such as biking, walking, or carpooling, and expanding public transportation access.


Engaging the campus community: Raising awareness about environmental issues and encouraging participation in sustainability initiatives, including educational campaigns and campus events].

Integrating sustainability into curriculum and operations: Incorporating sustainability principles into academic programs and institutional policies.

By implementing these recommendations and building upon existing sustainability efforts, K.J. Somaiya College of Arts, Commerce and Science, Kopargaon can further its commitment to environmental responsibility and serve as a model for other educational institutions.


Co-ordinator
IQAC, K. J. Somaiya College
Kopargaon, Dist. A.Nagar




Principal
K. J. Somaiya College of Arts
Commerce & Science, Kopargaon



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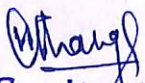
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