



Vasanti Engineer's and Consultant's Laboratory Services



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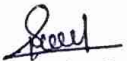
No. VECL / GAC / 10 / 2022-23

Date : 02/01/23

Certificate Green Audit

This is to certify that "Vasanti Engineer's And Consultant's Laboratory Services" has conducted Green audit " "Sant Dnyaneshwar Shikshan Sanstha's Hon. Shri Annasaheb Dange College Of Education (B.Ed), Ashta" "in academic year 2022-23. The green audit involves initiatives planning efforts activities implemented in college campus like environmental friendly, environmental promotional activities, water and waste water management, rain water harvesting, tree plantation, energy conservation, paper less technology and various environmental awareness activities. This Green audit is also aimed to assess impact of green initiatives for maintenance of the campus eco-friendly.

The college has submitted necessary data and credential of scrutiny. The activities and measures carried out by the college have been verified on the basis of previous recommendations and were found to be satisfactory. The efforts taken by the management, faculty and students towards environment are highly appreciated.


21/1/23
Green/Env Audit In charge
(S.S. Patil)




02/1/23
Authorized Sign
(V.S. Sadamate)
(CEO)/Auditor

Green Audit (2022-23)

GREEN AUDIT REPORT

(A.Y 2022-23)

"Sant Dnyaneshwar Shikshan Sanstha's"

HON. SHRI ANNASAHEB DANGE COLLEGE OF EDUCATION, ASHTA



Prepared by

**Vasanti Engineer's and Consultant's Laboratory
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I. ACKNOWLEDGEMENT

Vasanti Engineer's and Consultant's Laboratory Services Green Audit Team thanks the management "Sant Dnyaneshwar Shikshan Sanstha's Hon. Shri Annasaheb Dange College Of Education, Ashta" for assigning this important work of Green Audit .We appreciate the co-operation to our team for completion of study.

Our special thanks are due to:

Principal of the college - Dr. Pramod Kallapa Lambe

IQAC Member - Mr. Ajinkya Sambhaji Hake

Environment Expert at the campus - Dr. Meena V Surve.

Green Audit coordinator – Jayashree J Surve..

Teaching & Supporting Staff of College- Dr. Bharti.T. Sakekar

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



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2. DISCLAIMER:

Vasanti Engineer's and Consultant's Laboratory Services green Audit Team has prepared this report for " Sant Dnyaneshwar Shikshan Sanstha's Hon. Shri Annasaheb Dange College Of Education, Ashta "based on input data submitted by the representatives of College complemented with the best judgment capacity of the expert team.

It is further informed that the conclusions are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by audit team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

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Report by Auditor:

Vasanti S Sadamate

Vasanti S Sadamate

Supriya S Patil

Supriya S Patil
02/02/23



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3. CONCEPT

The green audit process was began in the 1970s with an intention of identifying the activities carried out in a given institution or company. Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The 'Green Audit' aims to analyse environmental practices within and outside the college campus, which will have an impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. Through Green Audit, one gets a direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out Green Audit. The audit also seeks to identify possible means and methods to save investments, enhance work quality, improve health and safety of their employees, reduce liabilities and reduce the rate of environmental pollution. A continuous process of such audit might result in maintaining the quality of these aspects within the premises of any organisation.

3.1 About Criteria 7 of NAAC

Universities are playing a key role in the development of human resources worldwide. Higher education institutes campus run various activities with the aim to percolate the knowledge along with practical dimension among the society. Likewise, different technological solutions related to the environment are also provided by the higher education institutes. Different types of evolutionary methods are used to assess the problem concerning the environment. It includes Environmental Impact Assessment (EIA), Social Impact Assessment (SIA), Carbon Footprint Mapping, Green audit, etc. National Assessment and Accreditation Council (NAAC) is a self-governing organization that rated the institutions according to the scores assigned at the time of accreditation of the institution. Green Audit has become a mandatory procedure for educational institutes under Criterion VII of NAAC. The intention of the green audits is to upgrade the environmental condition inside and around the institution. It is performed by considering environmental parameters like water and wastewater accounting, energy conservation, waste management, air, noise monitoring, etc. for making the institution eco-friendlier. Students are the major strength of any academic institution. Practicing green action in any educational institution will inculcate the good habit of caring for natural resources in students. Many environmental activities like plantation and nurturing saplings and trees, Cleanliness drives, Bird watching camps, no vehicle day, Rainwater harvesting,



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etc. will make the students good citizens of the country. Through Green Audit, higher educational institutions can ensure that they contribute towards the reduction of global warming through Carbon Footprint reduction measures.



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4. INTRODUCTION

"Sant Dnyaneshwar Shikshan Sanstha's Hon. Shri Annasaheb Dange College Of Education, Ashta." The journey started in 16 June 2009. The College has a wonderful infrastructure separate building with parking slot and garden. Besides excellent academics, experienced staff and have other activities.

Objective:

1. To harness the teacher potential through various methods of teaching.
2. To bring out teacher excellence competence and responsible citizens of country.
3. To provide a wide range of professional courses to meet the socioeconomic demand.
4. To mould the teacher personality through all round development that is physical mental spiritual and social.

Strength Achievement:

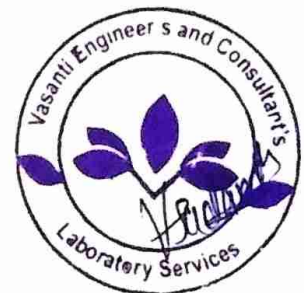
- Guidance for TET and TAIT exam.
- Guidance for competitive exam.
- B.Ed student qualified SET exam
- B.Ed student qualified TET and TAIT exam.
- Guest lecture on various topics.

- **Vision :**

- ✓ To provide competent teacher to the society with sound knowledge base with cross culture socially relevant and spiritually strong individual.

- **Mission**

- ✓ The institute quest for quality for education it shall be based on integration of teaching of methodology instructional technology.
- ✓ The institute shall provide empathies on cross cultural and spiritual understanding.
- ✓ The institute with its rural background shall address on socially relevant issue



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- ✓ The institute endeavaers to have three major components
 - (a) Theoretical orientation
 - (b) Social Experience
 - (c) Practice Work



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4.1 GREEN AUDIT EXECUTIVE SUMMERY REPORT

1. BRIEF ABOUT COLLEGE:

- Courses offered by the College:

SR No	Courses UG/PG	About College
1	Name of the Institution:	"Sant Dnyaneshwar Shikshan Sanstha's Hon. Shri Annasaheb Dange College Of Education, Ashta. "
2	Courses	B.Ed
3	No of students	Male-26 Female-77
4	No of teachers	Male-2Female-03
5	No of Non-teaching staffs	Male-01
6	Total campus area	1 acres
7	Girls common room	1
8	Garbage collection bins	10
9	Labs	7
10	Class rooms	6

4.2. ENVIRONMENTAL POLICY OF THE COLLEGE :

"Sant Dnyaneshwar Shikshan Sanstha's Hon. Shri Annasaheb Dange College of Education, Ashta." always believes in maintaining its own standard in matter of environment and quality consciousness.

Being an environmental conscious College, the administration and the students of the College look after the environment carefully. Institution owns responsibility to preserve the work carried out on the campus related to the environment

4.3 ENVIRONMENTAL POLICY :

College teaching and Non-teaching staff of "Sant Dnyaneshwar Shikshan Sanstha's Hon. Shri Annasaheb Dange College Of Education, Ashta. " is committed for carrying out its activity for sustainable development. This we will achieve through the following:-

- ✓ To bring in use the 'Rain Water Harvesting' on the campus.



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- ✓ To use the solid waste through vermin-compost on the campus and use it as a fertilizer.
- ✓ To protect and nurture the Flora and Fauna on the campus
- ✓ To maintain green campus.
- ✓ To reuse of plastics bottles and tiers for plantation.



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5. OBJECTIVES AND SCOPE

The main objective of the green audit is to promote the Environment Management and Conservation in the College Campus. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

GOALS OF GREEN AUDIT

- The objective of carrying out Green Audit is securing the environment and cut down the threats posed to human health.
- To make sure that rules and regulations are taken care of environment.
- To avoid the interruptions in environment that are more difficult to handle and their correction requires high cost
- To suggest the best protocols for adding to sustainable development

BENEFITS OF GREEN AUDIT

- Would help to prepare plan to protect the environment.
- Recognize the cost saving methods through waste minimization and management.
- Point out the prevailing and fourth coming impacts on environment.
- Ensures conformity with the applicable laws.
- Empower the organizations to frame a better environmental performance.
- It portrays a good image of an institution which helps building better relationships with the group of interested parties. Promotes the alertness for environmental guidelines and duties.



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6. CONSTITUTION FOR GREEN AUDIT

In order to perform green audit, the methodology included different tools such as preparation of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. The study covered the following areas to summarise the present status of environment management in the campus:

- ✓ Water conservation and management
- ✓ Waste Management
- ✓ Air Pollution Management
- ✓ Noise Pollution And Illumination Management
- ✓ Energy Use And Conservation
- ✓ Green Belt Area & Bio-Diversity

GOOD POINTS OBSERVED

1. College has to install 'Rain Water Harvesting' on the campus.
2. College has prepared Green Environmental policy and has taken efforts for sustainable development on the college campus. .
3. College has formed the team of faculty and student which works to maintain biodiversity on the campus and also participates in preventing pollution in society through various drives.
4. Environment Awareness trainings and workshop for faculty and students.
5. College has Vermin composting facility installed.
6. College cleaning activity twice in day.
7. Various tree plantation programs are being organized at college campus and surrounding villages.
8. College has conduct tree plantation programme twice in year.
9. College faculty and students participated in different environmental awareness programme.



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MAJOR RECOMMENDATIONS

- ✓ Display boards for switching off the taps to be put on at appropriate place.
- ✓ Display boards for switching off the switch boards to be put on at appropriate place.
- ✓ Automatic Leak detection systems for conservation of water.
- ✓ To provide incineration system for sanitary napkins.
- ✓ To provide dustbin facility for solid waste at appropriate place.
- ✓ To use maximum use of ICT and minimize use of paper it will help towards paperless office.
- ✓ Display boards for environmental awareness to be put on at appropriate place.
- ✓ To give waste water treatment process before use for agriculture.
- ✓ Display boards in the library and other places for awareness to maintain silence in the college.
- ✓ To provide LED bulb or tubes to save electricity.



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7. ANALYSIS OF GREEN PRACTICES

7.1 WATER CONSERVATION AND MANAGEMENT:

Water is a valuable natural resource for all living organisms. It is freely available depending on the climate and topographic features of a region. Although water is natural freely available but portable (drinkable) water is not available freely for human consumption. In our planet 70% area is covered by water but only 3% of it is fresh water. Around 1.1 billion people of the world face water crisis. Water pollution and wastage plays a vital role in water crisis. Water contaminations are taking place at an alarming rate. Drinking or using contaminated water leads to many diseases or death. That is why it is important to ensure that drinking water is safe, clean and free from bacteria and disease. It is also important to conserve protect and manage the water resources availability and usage so that it is sustainably used. Water auditing is conducted for the evaluation of facilities of raw water intake and determining the facilities for water treatment and reuse. A water audit is an on-site survey and assessment to determine the water quality, use and hence improving the efficiency of its use.

- **USES AND MANAGEMENT**
- **SOURCE OF WATER:**

SR. NO.	PARAMETERS	RESPONSE
1	Source of water	River/Bore well
2	Water reserve /Storage tank	02
3	Capacity of tank	2000lit



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• WATER USERS IN CAMPUS :

SR No.	Person in different section	Strength (No. of person)
1	Staff	05
2	Non teaching Staff	01
3	Hostel Boarders	5
4	Visitors	10

The visitors of the College vary with respect to different activities conducted in the College campus. During admission and different competitive exam conducted in the college campus.

QUANTITY OF WATER USED IN DIFFERENT SECTIONS OF THE CAMPUS

Sl. No.	Sections	Water Use (Litter/day)
1	Academic building	31470
3	Canteen	7200
4	Urinals and Toilets	7560
5	Garden	1000
6	Drinking	900
7	Hostel	9600
8	Leakage	3000



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WATER CONSUMPTION IN DIFFERENT ACTIVITY IN COLLEGE CAMPUS

Activity	Water used per activity (in Litter)	No. of times Activity performed in a day	Average water used Person/Day	No. of people using water	Total water consumption per Day (L)
Hand and face wash	4-6 L	4	16-24L	200	4000
Drinking Water	0.2-0.4L	6	1.2-2.4L	200	360
Toilet Flush	8-10L	4	32-40L	210	7560
Bath	30-40 L	1	30-40 L	10	350
Cooking & Washing In canteen	150-250L	2	300-500L	18	7200
Cooking & Washing Hostel	350-450L	2	700-900L	15	9600
Total					31470



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- **MAJOR OBSERVATIONS IN REGARD OF WATER USAGES AND CONSERVATION PLAN**

1. At present, no measures have been taken to treat waste water in the college premises.
2. Rain water harvesting system is installed and collected water used for gardening and agricultural purpose.

- **RECOMMENDATIONS**

College administration may consider theses on top priority:-

- ✓ To establish and implement the Water Conservation and Management Plan as per Environment Protection Act 1986
- ✓ The water Conservation Awareness Program to be conducted on World Water Day on 22nd March every year
- ✓ Display boards for switching off the taps to be put on at appropriate place
- ✓ Automatic Leak detection systems for conservation of water.
- ✓ 80 % of total quantum of ground water extracted shall be recharged to ground either by Artificial Recharge Structures within the college premises
- ✓ Special Internal Water Audit to be conducted quarterly.
- ✓ Drip irrigation and sprinklers are used for watering the garden. The garden is also watered with water pipe, two times a day for 02 hours each time.



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7.2 WASTE MANAGEMENT:

This indicator addresses waste production and disposal of different wastes like paper, food, plastic, biodegradable, glass, dust etc. reuse and recycling. Furthermore, solid waste often includes wasted material resources that could be channelled into better service through recycling, repair, and reuse. Solid waste generation and management is a burning issue. Unscientific handling of solid waste can create threats to everyone. The survey focused on volume, type and current management practice of solid waste generated in the campus.

- **DIFFERENT TYPES OF WASTE GENERATED IN THE COLLEGE AND THEIR DISPOSAL.**

Types of waste	Particulars	Disposal method
E-Waste	Computers, electrical and electronic parts	Authorized disposal agency
Plastic waste	Pen, Refill, Plastic water bottles and other plastic containers, wrappers etc	Municipal
Solid wastes	Damaged furniture, paper waste, paper plates, food wastes	Municipal
Sanitary Napkin	Napkin	-



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- **MAJOR OBSERVATIONS IN REGARD OF WATER USAGES AND CONSERVATION PLAN :**

1. At present total solid waste collected in the campus is 8 Kg/day, Waste generation from tree droppings, canteen and lawn management is a major solid waste generated in the campus.
2. Vegetable waste and other leaf litters were used to feed in the vermin-compost pit and the resulting vermin-cast is used as manure in the garden.
3. Other solid waste directly disposal to municipal corporation.

- **RECOMMENDATIONS:**

- ✓ Dustbins should be providing at classrooms and campus premises.
- ✓ Incineration provide for disposal sanitary napkins.

7.3 AIR POLLUTION MANAGEMENT:

- **PERIODIC AWARENESS PROGRAMME FOR STAFF, STUDENTS AND SOCIETY**

Every day there are 10 Two wheelers and 2 four wheelers are coming in college premises but there is no system observed to check for PUC certificate, Vehicle Exhaust Gas Analysis and Vehicular movement noise and vibration pollution. The air pollution at the time of ignition off and on is more than it is in riding mode.

RECOMMENDATIONS

The college may consider these on top priority:-

- ✓ World environment day to be celebrated in college premises every year on 5th june and whole college students and staff shall get involved and take oath for environment conservation not only in college but also in every span of life.
- ✓ College shall monitor the Ambient Air Quality as per the guidelines of (Prevention and Control of Pollution) Act 1981
- ✓ Exhausts gases shall be monitored analyzed and check regularly.
- ✓ Use of bicycle in campus to be promoted.
- ✓ Vehicular exhausts shall be examined regularly in the collage as per Central Motor



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Vehicle Act 1988

- ✓ Vehicular movement shall be restricted by putting boundary limit and beyond that limit bicycles usage shall be promoted to all students and staff.

7.4 NOISE POLLUTION AND ILLUMINATION MANAGEMENT:

- **MAJOR OBSERVATIONS IN REGARD OF NOISE POLLUTION AND ILLUMINATION MANAGEMENT**

1. SILENCE ZONES IN THE COLLEGE

Various display boards have been not placed in the library and other places for awareness to maintain silence in the college.

- **NOISE STUDY:**

Noise level monitoring was carried out using Noise Level Meter. The noise level survey was carried out two locations, at outside as well as inside.

Noise Monitoring.

Location	Time (pm)	1	2	3	4	5	Noise Level Readings dB(A)	
Outside	12.30	56.1	56.3	58.3	57	58.4	57.22	
	1.30	62.6	62.7	60	58.2	61.7	61.04	
Inside	12.35	Class	52.6	53.7	50.5	53.6	58.6	53.8
		Laboratory	55.2	55.4	53.4	54.8	55.7	54.9
		Library	50.3	54.7	59.7	50.2	58.7	54.72
	1.35	Class	50.8	52.4	53.7	60.5	54.4	54.36
		Laboratory	48.7	50.1	50.7	57.4	54.1	52.2
		Library	58.9	52.1	58.7	52.3	50.4	54.48
As per The Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3(1) and 4(1))								
Area Code		Area Type		Limits in dB (A) weighted scale				
				Day (6am to 10pm)		Night (10pm to 6am)		
B		Commercial		65		55		

It is observed that noise level of the campus is within limit as per the noise pollution regulations and control rules 2000.



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• ILLUMINATION STUDY

The illumination study was carried out using Lux Meter. The illumination study was carried out at two locations, in Classroom and Laboratory.

Sr. No.	Location	Time (pm)	Lux Level Reading (Lux)					Average Lux
			1	2	3	4	5	
1.	Classroom	12.30-1.30	125	125	169	169	147	147
2.	Classroom	1.30-1.30	130	100	98	97	100	105
3.	Laboratory	12.30-1.30	100	108	134	136	80	111.6
4.	Laboratory	12.30-1.30	155	156	140	100	146	139.4
5.	Library	12.30-1.30	120	147	130	169	147	142.6

All results of Illumination Study (Classroom and Laboratory) found within limits as per MF Rules- Section-35, Schedule B.

RECOMMENDATIONS

The College administration may consider on top priority

- ✓ The College adopts no honking policy and prevents use of any honk and noise in campus. Certain areas like library, classrooms are declared as silence zone and noise pollution is kept to minimum on college campus.



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7.5 ENERGY USE AND CONSERVATION.

- **MAJOR OBSERVATIONS IN REGARD OF ENERGY USE AND CONSERVATION :**

Table shows the energy consumption pattern of the collage for a month. The college has consumed an average of 102.42/hr electricity in a month and the one year electricity bill amount was 17200.8/ -

SR No	Electrical appliances	Number	Power (W)/unit	Total power (W)	kW	Operation/day	kW/h r	No of days in month	Total consumption per month
1	TUBE	10	30	300	0.3	2	0.6	25	15
2	PROJECTOR	1	280	280	0.28	2	0.56	17	9.52
3	SPEAKERS	1	10	10	0.01	2	0.02	25	0.5
4	FAN	20	80	1600	1.6	1	1.6	25	40
5	COMPUTER	4	250	1000	1	1	1	25	25
6	PRINTERS	1	60	60	0.06	2	0.12	20	2.4
7	R.O PLANT	1	50	50	0.05	1	0.05	24	1.2



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7.6 GREEN BELT AREA & BIO-DIVERSITY:

The Green Belt Area is meant for conservation of nature and aesthetic value of the College premises. The Green Area in the College includes the plants, greenery and sustainability of the campus to ensure that the buildings conform to green standards. This also helps in ensuring that the Environmental Policy is enacted, enforced and reviewed using various environmental awareness programmes.

OBSERVATIONS

Campus is located in the vicinity of approximately 10 types (species) flora and fauna.

Types of trees planted which are environment friendly are enlisted below:

Neem Belmoresentry Palm, Aesculusparviflor, Mango, Manikaradissecta, Eryngiumaguauifolium, Cocusnucifera Guava, etc

RECOMMENDATIONS

The Management of College may consider on top priority that

- ✓ Total 33% area is to be reserved for plantation
- ✓ The Biodiversity is to be maintained while considering the plantation in future
- ✓ The selection of trees species to be based on environmental conservation and carbon sequestration value
- ✓ Artificial nests and water ponds are recommended to attract different birds in their migrating and breeding season
- ✓ Watering schedule to be planned according the season
- ✓ Drip irrigation is strongly recommended to conserve the water
- ✓ Reuse of the water shall be done instead of use of fresh water
- ✓ Special Tree Plantation shall be celebrated every year on environment day and also competitions for bird species identification and knowing the tree values in terms of medicinal and environment conservation.

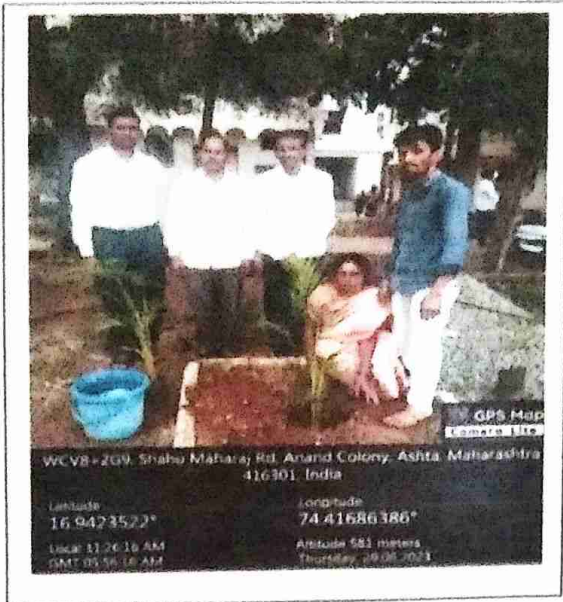
• Animal Welfare

More than 15 Squirrels are found in the campus. Approx. 4 dogs, 10 green bee, 10 Black sparrow, 15 crow pheasants, 10 pigeon, 1 Crow pheasant and others including butterflies, insects, bees, earthworms, etc. are there in campus.



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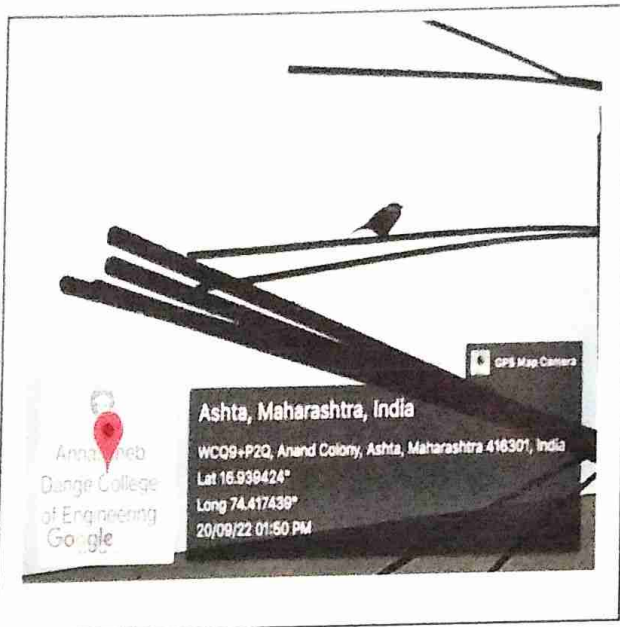
8. ANNEXURE PHOTOGRAPHS OF ENVIRONMENT CONSCIOUSNESS



Tree plantation at Institute



Tree plantation at Institute



Bird at Institute



Composting At Campus



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9. CONCLUSION

1. The institute management and other authorities are keen to make the campus a green campus
2. College is making learning process by practical approach. This is fulfilled by setting different types of gardens, arboretum concept based garden and conservation of water and energy.
3. Staff and students are aware about the commitment of the institute towards the society.
4. Green audit at times makes the campus authority to understand the effect of implications towards greenness and conservation of water and energy.
5. The evaluation process proved that the authorities have applied implications suggested in the previous audit.
6. The campus community functions are oriented with an eco-friendly approach that enables the student community to develop a genuine approach on conservation of nature, and natural resources.
7. The results presented in the present report would be helpful for the authorities to make future action plans to develop more sophisticated ideas in bringing more values in future efforts towards conservation of biodiversity, water and energy.
8. As part of green audit of campus, we carried out the environmental monitoring of campus includes Illumination, Noise level, Ventilation and Indoor Air quality of the class room. It was observed that Illumination and Ventilation is adequate considering natural light present. Noise level in the campus well within the limit.
9. College authority forms a committee for the plantation program and environmental awareness; this committee continuously works throughout the year with the help of students and staff. College appointed NSS students for the awareness of tree plantation.



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10. REFERENCES

- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 – The Petroleum Rules: 2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010.
- The Water [Prevention & Control Of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
- The Air [Prevention & Control Of Pollution] Act –1981 (Amended 1987)
The Air (Prevention & Control of Pollution) Rules – 1982
- The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules –1981
- E-waste management rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices
- Internal Records of the Campus

