

A
Environment (Green) Audit Report
of



"Arunodaya Dnyan Prasarak Mandal"
Women's College of Arts, Commerce
and Home Science, Jalgaon

For the year

2018-19

Submitted by

External Audit Team

K. C. E. S's Moolji Jaitha College
Jalgaon

Index

Sr. No.	Contents	Page Nos.
1	Certificate	03
2	Introduction	04
3	About the Institution	05
4	About the College	06
5	Audit Team	07
6	Time Schedule	08
7	Executive Summary	09
8	Statement of Assurance	10
9	Steps in Audit	10
10	Methodology and Instruments used for the Audit	10
11	Summary of Findings	12
12	Audit Framework and Detailed Findings	12
13	Recommendations	28
14	Declaration	29

CERTIFICATE

Environmental (Green) Audit

This is to certify that **A.D.P.M'S Women's College of Arts, Commerce and Home Science, Jalgaon (Maharashtra)** has satisfactorily conducted the Environmental (Green) Audit in accordance with the required norms for the academic year 2018-19.

The audit shall assist them to develop measures to save the environment and its individual units.

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Introduction

The rapid environmental degradation at local, regional and global level is real, which is leading us to global “Environmental Poverty”. Stabilization of human population, adoption of environmentally sound and sustainable technologies, reforestation and ecological restoration are crucial elements in creating an equitable and sustainable future for all humankind in harmony with nature. Thus, academic leaders must initiate and support mobilization of internal and external resources and knowledge so that their institute responds to environmental challenges.

The college is deeply concerned and unconditionally believes that there is an urgent need to address fundamental issues. We deeply subscribe to the fact that humans should be steward of Mother Nature and that we all have a profound responsibility to protect the earth’s resources in perpetuity. Being a responsible higher educational institution, the college has resolved to lay a major role in environmental literacy campaign; particularly our NSS unit will carry out this responsibility.

The current environmental audit represents the first stage in our efforts to build environmental sustainability on the campus. The audit was conducted by a team of faculty lead by Prof. K. P. Pawar (Assistant Professor, Department of Environmental Sciences, KCES’s Moolji Jaitha College, Jalgaon) with assistance from Mr. B. R. Joshi (Head, Department, B.Voc., KCES’s Moolji Jaitha College, Jalgaon). We have conducted this audit for the college to create awareness among not only students but also staff and stakeholders about avoiding engagement in non-eco-friendly activities. We desire to make these activities as a regular part of functioning.

The overall goals of this audit were:

- To introduce students to real concern of environment and its sustainability using the college campus as a study site.
- To analyse the pattern and extent of resources used on the campus.
- To make the college a more environmentally sustainable.
- To bring out a status report on environmental compliance.

About the Institution

Under the able leadership of veteran Gandhian Hon'ble Shri. Balasaheb Madhukarrao Chaudhari, people from higher education, social work and other walks of life came forward to establish "Arunodaya Dnyan Prasarak Mandal" in the year 1987. Shri. Balasaheb Chaudhari who was managing bodies of several educational institutions, had a first-hand experience. He realised that 'East Khandesh', our region needs an educational institution with a difference in a sense. There was an urgent need to open the doors of higher education for WOMEN, especially those who are under-privileged for various reasons – early marriage, widowhood, deserted women etc. To serve this class, the institution introduced the college in 1989 which is affiliated to the SNDT Women's University, Mumbai.

About the College

Since its inception the college has been imparting higher education to the girls from socio-economical backward class students so as to bring them in the mainstream of the society. Basically, the students hail from the surrounding villages and on the outskirts of the city. The college initially introduced Arts and Commerce faculty and gradually started Home Science faculty as the need of the hour.

In the year 1992, the college received 100 percent grants from the State Government. By the efforts of the institution, the State Government allotted one acre centrally located land to the institution in 1993. The beautiful campus comprises of a three storied building, well equipped Indoor Sports Hall for Badminton and a playground. The college got 2 (f) recognition in 1994. The University granted permanent affiliation to the college in 1998. Consequently, the college started with only 80 enrolments in 1989, specialization in two subjects. i.e. Marathi and Hindi, seven teaching and two non-teaching staff members. The college now has enrolment of 294 students, six subject specialization in Arts faculty and 16 teaching and 8 non-teaching staff.

The college underwent NAAC Accreditation process twice and maintained the 'B' Grade. Presently we are appearing for the 3rd Cycle with the strong hope to improve our grade.

Audit Team**1. Internal Audit Team**

Sr. No.	Name of Auditors	Designation
1	Dr. Somnath Lokare	Chairman
2	Dr. Prakash Kamble	Member
3	Dr. Vinay Patil	Member
4	Mr. Rajesh Kharde	Member

2. External Audit (Expert) Team

Sr. No.	Name of Auditors	Designation
1	Prof. Kiran P. Pawar	Assistant Professor, Dept. of Environment Science, KCES's Moolji Jaitha College, Jalgaon
2	Prof. B. R. Joshi	Head, Department of B. Voc., KCES's Moolji Jaitha College, Jalgaon

Time Schedule

Audit Team Meeting	Date: 10th January 2019
<ol style="list-style-type: none"> 1. Discussion about Green Audit 2. Resolution of doubts 3. Planning for data collection 	
Visit of Audit Team	Date : 21st January 2019
<ol style="list-style-type: none"> 1. Actual Visit, Monitoring of Data 2. Discussion with Principal, Co-ordinator and Staff Members 	
Preparation of Draft Audit Report	Date: 25th January 2019
Submission of Report - Review & Suggestion	Date: 1st February 2019
Finalization of Audit Report	Date: 4th February 2019

Executive Summary

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institute which will lead for sustainable development.

The college is intensely concerned and totally believes that there is an urgent need to address these basic problems and reverse the trends. The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. With this in mind, the specific objectives of the audit were to evaluate the adequacy of the management control framework of Environment Sustainability as well as the degree to which the Departments are in compliance with the applicable regulations, policies and standards.

The College Campus Area Development Committee serves as a “Internal Audit Team” to perform various activities in the field of Green Campus. College is adopting zero waste discharge facility to manage the solid, liquid and e-waste.

- **Solid waste management:** Vermi-composting of bio degradable waste – a vermicompost pit is created for vermin-composting of bio- degradable waste such as leaves of trees. Green garbage drive is carried out by the college where waste is segregated into separate bins.
- **Liquid waste management:** The College has designed the outflow of the liquid waste in such a way as to prevent contamination in the campus. A properly constructed leakage proof sewer system is used for drainage.
- **Water Conservation:** College is concerned about water conservation, so the college authority save the runoff of rain water from the terrace of the buildings constructed in the college campus by Rain water harvesting structure. The runoff from the unpaved area is intercepted at certain locations by collection trenches. This runoff eventually facilitates groundwater recharge.
- **Green Practices:** Colleges willingly accepted the green practices and strictly follow them. The college conducts campaign for students and faculty to understand the importance of environmental protection and be mindful about saving energy. The authority frequently appeals to the students and faculty to maintain the tradition of no vehicle day in a week. Tree plantation drive are regularly been carried out in the college premises and also nearby areas.

Statement of Assurance

The audit has been conducted in accordance with the standard procedures for the professional practice of internal auditing.

In our professional judgments, sufficient and appropriate audit procedures are completed and evidence gathered to support the accuracy of the conclusions reached and contained in this report. The conclusions are based on a comparison of the situations as they existed at the time of the audit with the established area.

Steps of Audit

In order to meet its objectives, this audit combined physical inspection with review of relevant documentation and interactions with departmental staff members and students.

- **Review of the Documentation:** For the purpose of this audit Green audit frame work was reviewed.
- **Interviews:** Interviews were conducted with the principal, departmental faculties and students.
- **Physical Inspection:** The audit team has conducted physical observation in the college campus to inspect the green practices.

Methodology and Instruments used for the Audit

➤ Ambient and Workplace Air Quality Monitoring and Assessment



RDS Sampler

The Audit work is designed to assess the ambient and workplace air pollution status in the College with reference to different parameters such as SPM, RSPM, SO_2 and NO_2 . Status of air quality is determined by ambient and workplace air monitoring at selected sampling points. The status of ambient air pollution is monitored by using High Volume Sampler (Envirotech APM 460 BL Respirable Dust Sampler-RDS) while workplace air monitoring is carried out by Handy Dust Sampler.

SPM and RSPM samples are collected with the help of high volume sampler on cup and glass fiber filter paper respectively for 24 hr. with air flow rate of 1- 1.5 $\text{m}^3 \text{min}^{-1}$. The difference in initial and final weights of the cup and filter paper gives the total quantity of SPM and RSPM

collected over the 24 hr period. Measurement of SO_2 ($\mu\text{g m}^{-3}$) in the ambient air is analyzed by the West- Gaeke method (1956) and NO_2 ($\mu\text{g m}^{-3}$) gas by the modified method of Jacob and Hochheisher (1958).

➤ Monitoring and Assessment of Noise



Env. Noise Pollution Meter & Sound Level

Noise is also monitored by two ways. Ambient Noise Quality, as the College is situated at the central part of city. National Highway No. 6 passed from one side of the college, The College is surrounded by the educational institution on three sides while the front side has traffic road and across it is a residential area. In this way all sources contribute noise in to the campus. Workplace noise quality of some selected class rooms and laboratory are assessed by Sound Level

Meter (Lutron SL-4010) and Environmental Noise Pollution Monitor Meter (RT-5510). The obtained results are compared with Maharashtra Pollution Control Board (MPCB) standard as according to these standard educational institute is considering as "Sensitive Zone".

➤ Monitoring and Assessment of Light Intensity



LUX (Light Intensity) Meter

As the college promotes different educational activities like PPT presentations, Interactive teaching-learning with ICT tools, adequate lighting must be provided. Insufficient light may create eye problems, visual fatigue while the more concentration causes glare or reflection into the teachers, student's eyes. To check the present status of light intensity, Illumination is measured in units of LUX (Lumens per square meter) by Illumination Digital Lux Meter (TES-1332A). The

obtained results are compared with standard guidelines.

Summary of Findings

The main finding of the audit shows that, all the departments, staff and students are aware about the need for environment protection at a general level. It was also observed that a number of best practices such as maintaining the collection of waste separately, introduce rain water harvesting to new building structures, implementing plastic free campus etc. are followed in the college premises.

Audit Framework and Detailed Findings

The following audit framework is used for conducting Green Audit in 2018-19. The frame work also lists the finding and also observations for every criterion.

Criteria- 1 (A): Waste Generation and Management

Objective: Maximize the waste recycle and minimize the quantity of non-recycled refuse.

Activity: Segregation of waste

Audit Observation: Waste Material is segregated as per category like Paper, Cardboard, Scrap Wood, Scrap Metal, Plastic scrap, glass etc. Each waste is disposed as per the environmental guideline.

Type of waste	Audit Observation
Paper Waste	<ul style="list-style-type: none"> One side rough paper is used for the printing of Notices, Time Tables etc. Email and Mobile media communication is used for minimize use of paper.
Plastic waste	<ul style="list-style-type: none"> Plastic bottles, caps and other waste material are stored separately at departmental level and sell as a scrap material
Electrical Waste	<ul style="list-style-type: none"> Electrical waste like damaged electrical board, switches, cut wires are collected by electrician and replace with new one and remaining wastage is sold as scrap.

Criteria- 1 (B): Waste Generation and Management

Objective: Collection of waste.

Activity: Students as well as faculties of different departments are concerned about waste collection. They do not throw the waste paper in the premises of college campus.

Audit Observation: Proper dustbins are provided within college campus. Also some dustbins are provided to departments for collection of solid waste. The stored waste is sent for Vermi-composting.

Criteria- 1 (C): Waste Generation and Management

Objective: Plastic free Campus.

Activity: Motivate students about harm of plastic carry bags and items to convince them for no use of plastic in college premises.

Audit Observation: The activity called as “No Use of Plastic” is conducted for awareness among staff and students.

Criteria- 1 (D): Waste Generation and Management

Objective: Management of Campus Garbage Waste.

Activity: Installation of Vermi-compost and Vermi Wash Tank

Audit Observation: The collected wastes from campus, debris, leaf litter are collected and dumped into vermicomposting pit to prepare the compost manure and Vermi wash from the waste. *Eisenia Foetida* species of earthworm is used for the process.



Vermi-composting Pit



Upper view of Vermi-composting Pit

Side view of Vermi-composting Pit

Criteria- 2 (A): Water conservation

Objective: Water conservation.

Activity: Rain Water Harvesting

Audit Observation: As a measure of water conservation, a proper rain water harvesting system has been installed in the main building of the college to channelize the water collected during rainy season.

Criteria- 2 (B): Water conservation

Objective: Water Saving.

Activity: Water Audit

Audit Observation:

- The storage (overhead/underground tank) is checked periodically for any leakage.
- The departmental Tap is checked periodically to prevent from any leakage.
- The leakage Taps are replaced by new one.

Criteria- 2 (C): Water Quality Assessment

Objective: To Provide Safe Drinking water.

Activity: Drinking Water Quality Assessment by APHA-1998 Method.

Location Code	Source
DW-1	RO Water Sample
DW-2	Water Cooler Sample



Drinking Water Facility for Students

➤ Analytical Results of Water Quality Assessment

Sr. No.	Parameters	Units	DW-1	DW-2	BIS Limits
1	Colour	----	Clear	Clear	----
2	Odour	----	Non-objectionable		
3	Taste	----	Agreeable		
4	Turbidity	NTU	1.1	0.2	5
5	pH		6.18	6.01	6.5 to 8.5
6	Electrical Conductivity	ds/m	5.7	4.32	-----
7	Total Acidity	mg/l	13	11	120
8	Total Alkalinity	mg/l	1.3	0.9	200
9	Total Hardness (as CaCO ₃)	mg/l	09	07	300
10	Calcium Hardness	mg/l	08	13	200
11	Magnesium Hardness	mg/l	06	09	100
12	Ca ²⁺	mg/l	14.2	48.3	75
13	Mg ²⁺	mg/l	9.7	14.59	50
14	Total Dissolved Solids	mg/l	5.3	24.8	500
15	Total Suspended solids	mg/l	1.1	12.2	NS
16	Total Solids	mg/l	6.4	37.0	500
17	Chloride	mg/l	11.2	22.1	250
18	Nitrate	mg/l	ND	ND	45
19	Sulphate	mg/l	ND	ND	200
20	Fluoride	mg/l	ND	ND	1.0
21	Sodium	mg/l	ND	ND	200
22	Potassium	mg/l	ND	ND	NS
23	Phosphate	mg/l	ND	ND	5
24	Oil & Grease	Mg/l	ND	ND	5
25	MPN	MPN/ 100 ml	ND	ND	0/100 ml

(*ND – Not Detected, NS – No Standard)

Audit Observation: According to above observation, all values of physical, chemical and biological parameters were found within the prescribed limit of BIS. So the water is safe and suitable for drinking purpose. RO plant is also installed for purification of water.

Criteria- 3 (A): Energy Consumption (Electrical Energy)

Objective: To save the electrical energy.

Activity: Installation of LED bulb at Library.

Audit Observation: LED bulbs are installed in Library to conserve the electrical energy instead of tube lights.

Coordinator's Cabin with LED Light →



Criteria- 3 (B): Energy Consumption (Electrical Energy)

Objective: To save the electrical energy.

Activity: Conservation of Electrical Energy at Departmental Level

Audit Observation:

- All Departments having panel boards MCB switch to control the electrical supply within the department. The responsibility is given to non-teaching staff to “Switch-off” this switch without any ignorance to avoid the wastage of electrical energy.
- Sign boards like “Switch off the fans / light when not in use” are displayed in the departments.
- The water pumps are regularly maintained for minimum consumption of electricity.
- LED lamps, 5 star rating AC systems, LCD monitors, Branded fans are used to minimize the consumption.

Criteria- 3 (C): Energy Consumption (Electrical Energy)

Objective: To save the electrical energy.

Activity: Installation of “Solar Plate” at Main Building.

Audit Observation: Solar Plates are installed in the main building to save the electrical energy using natural resource.



Solar Panels (Plates) installed at Main Building Terrace

Criteria- 3 (D): Energy Consumption (Electrical Energy)

Objective: To determine Illumination (Light Intensity).

Activity: To measure the light intensity in college campus by Lux Meter.

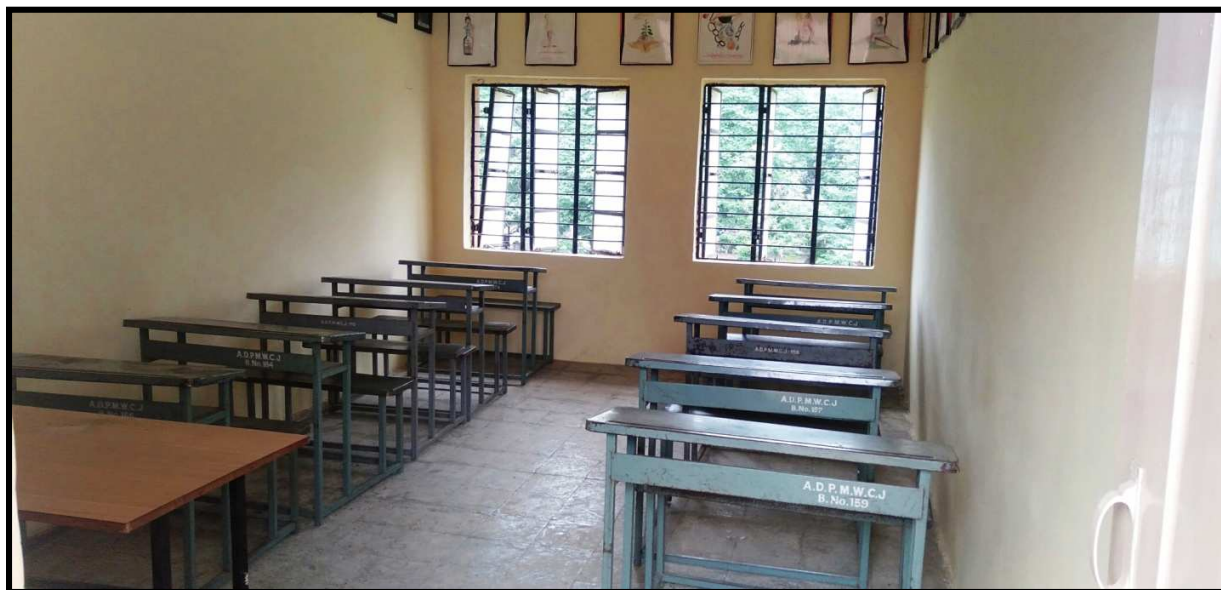
Audit Observation: As the college promotes to different educational activities like PPT presentations, Interactive teaching-learning with ICT tools, adequate lighting must be provided. Insufficient light may create eye problems, visual fatigue while the more concentration causes glare or reflection into the staffs, student's eyes. To measure the present status of light intensity, Illumination is measured in units of LUX (Lumens per square meter) by Illumination Digital Lux Meter (TES-1332A). The obtained Results compared with standard guidelines. The illumination levels at all locations were found good according to standards.



ICT Hall with provision of Natural Light to save the electricity

Sr. No.	Locations	Illumination (Day Time) Lux	
		Without Light	With Light
1	Principal's Cabin	83.6	105.8
2	Management Room	86.9	112.5
3	Administrative Office	100.8	137.8
4	Library (Reading Room)	88.8	174.2
5	Staff Room	86.8	142.6
6	Vice - Principal's Cabin	91.9	135.8
7	Bachpan School Principal's Cabin	87.4	115.5
8	Conference Hall	88.8	123.5
9	Basement Class Room	90.5	125.5
10	Class Room No. 2	85.2	100.2
11	Canteen	61.2	132.2
Ist Floor			
12	Dept. of Geography	72.7	160.1
13	Dept. of English	70.1	159.2
14	Dept. of Sociology	76.2	160.1
15	Dept. of Hindi	74.6	132.2
16	Dept. of Economics	85.5	128.8
17	Dept. of Marathi	62.4	122.5
18	Store Room	83.2	131.4
19	ICT Centre	85.6	122.5
20	Library (Office)	89.8	140.2
21	Reading Room	120.1	132.3
IInd Floor			
22	Dept. of Home Science	82.9	105.6
23	Hall No. 201	65.5	110.9
24	Hall No. 202	72.9	111.2
25	Class Room No. 203	86.2	140.2
26	Class Room No. 204	82.6	135.6
27	Class Room No. 205	85.8	125.8
28	Class Room No. 206	88.4	122.2
29	Class Room No. 207	82.4	112.6
30	Class Room No. 208	83.8	125.8
31	Sport's Hall	90.2	132.6

Illumination Level at various parts of College



Class Room with provision of Natural Light to save the electricity

Criteria- 4: Energy Consumption (Transportation)

Objective: To save the fuel energy.

Activity: Motivate students and faculties to reduce the use of vehicles in college campus.

Audit Observation: College actively organizes “No Vehicle Day” programme in college premises on second Saturday of each month.

Criteria- 5: Monitoring and Assessment of Noise

Objective: To measure the ambient as well as workplace noise within the college campus.

Activity: To measure the Noise Quality by Noise Level Meter.

Audit Observation:

Noise has been recognized as ambient air pollutant. Standards in this regards are laid down under Environment (protection) rules, 1986.

Sr. No.	Category of Zone	Permissible Limits dB (A) Leq	
		Day Time	Night Time
1	Industrial Zone	75	70
2	Commercial Zone	65	55
3	Residential Zone	55	45
4	Silence Zone	50	40

Permissible Limit of Noise in Silence Zones

- The permissible limits are count as per the zones. The noise monitoring generally carried out at day time and at night time.
- The day timing is considered as morning 06:00 am to night 10:00 pm and the night timing is considered as night 10:00 pm to morning 06:00 am.
- As per the observations recorded the day time and night time standards are used for the comparisons.
- Zone assortment may be carried out by Municipal Authority of that particular locations or city.
- Hospitals, **Educational Institutes**, Governmental offices, Session courts and Police Stations include in “Silent Zone”. The college abides by the norms laid down for silent zones.
- So “Silent Zones” standards (Day Time only) used for the comparisons.



Ambient Noise Level monitoring at Main Gate of College

Sr. No.	Locations	Noise Level in dB (A)		MPCB Limits
		Day Time	Night Time	Silent Zone
1	Main Gate	71.7	NA	Day Time 50 dB Night Time 40dB
2	Centre Point of Ground	68.9	NA	
3	Principal’s Cabin	42.8	NA	
4	Management Room	40.2	NA	
5	Administrative Office	51.2	NA	
6	Library (Reading Room)	46.4	NA	
7	Staff Room	44.8	NA	
8	Vice - Principal’s Cabin	42.2	NA	
9	Bachpan School Principal’s Cabin	40.7	NA	
10	Conference Hall	49.9	NA	
11	Basement Class Room	38.4	NA	
12	Class Room No. 2	39.9	NA	
13	Canteen	47.5	NA	
Ist Floor				
14	Dept. of Geography	41.6	NA	
15	Dept. of English	43.7	NA	
16	Dept. of Sociology	42.9	NA	
17	Dept. of Hindi	43.2	NA	
18	Dept. of Economics	44.8	NA	
19	Dept. of Marathi	41.7	NA	
20	Store Room	43.1	NA	
21	ICT Centre	42.3	NA	
22	Library (Office)	45.5	NA	
23	Reading Room	43.9	NA	
IInd Floor				
24	Dept. of Home Science	41.1	NA	
25	Hall No. 201	46.3	NA	
26	Hall No. 202	42.2	NA	
27	Class Room No. 203	40.3	NA	
28	Class Room No. 204	39.8	NA	
29	Class Room No. 205	40.1	NA	
30	Class Room No. 206	41.9	NA	
31	Class Room No. 207	42.1	NA	
32	Class Room No. 208	42.8	NA	
33	Sport’s Hall	41.5	NA	

Observation of Noise Level Monitoring (A)

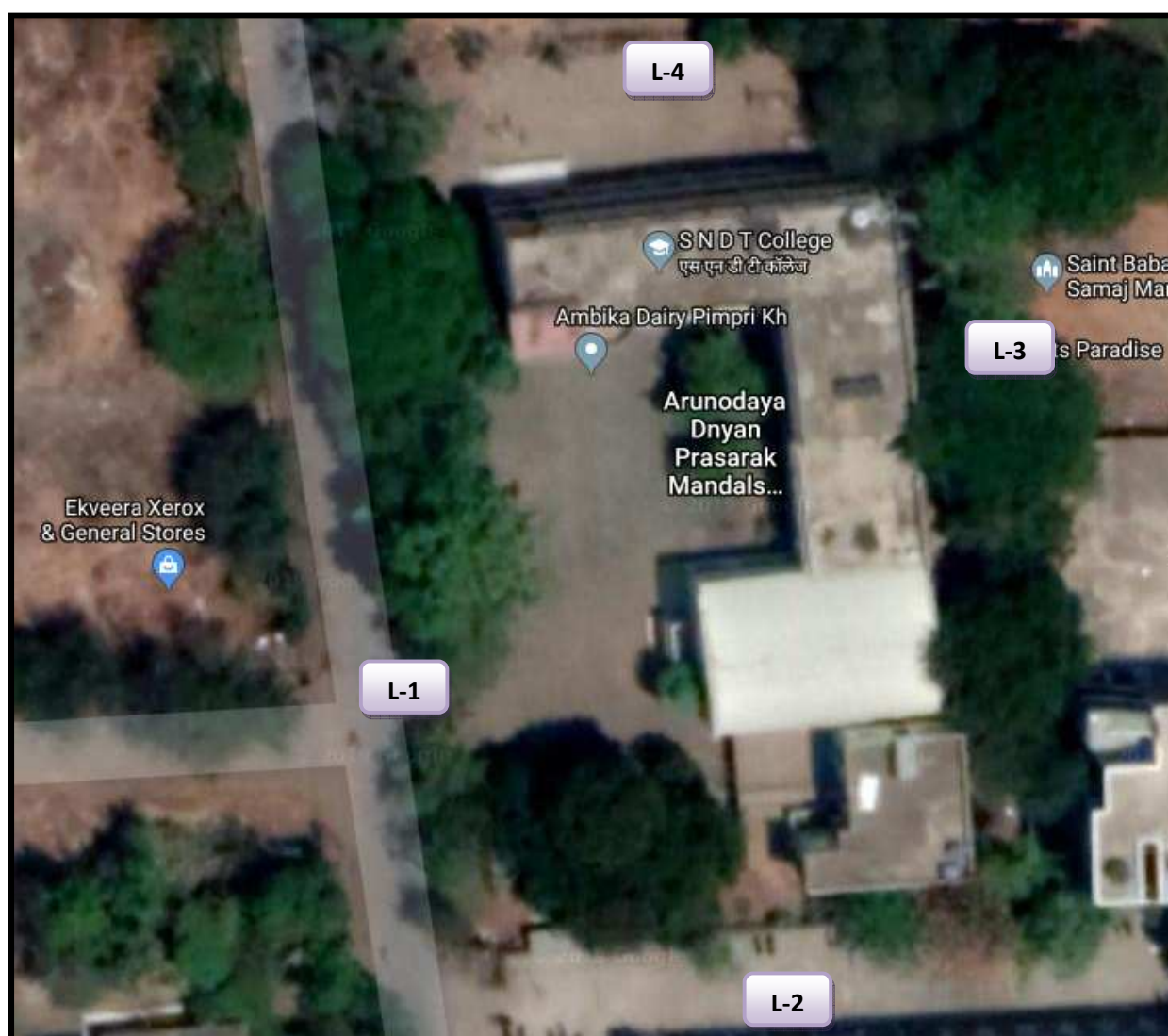
Except Main gate and centre point of ground all other observations are within the prescribed limits of Environment (protection) rules, 1986. Due to nearby traffic areas the noise level is high at Main gate and centre point of ground.

Criteria- 6: Air quality Monitoring

Objective: To measure the Ambient Air Quality.

Activity: To measure the Ambient Air Quality by RDS Sampler

Audit Observation:



Location wise Google Earth Image of the A.D.P.M'S Women's College of Arts, Commerce and Home Science, Jalgaon

Location Code	Locations	Parameters		
		SO _x	NO _x	SPM
L-1	Main Gate (Entrance)	22.98	65.42	201.8
L-2	Right End of the College Campus	24.49	61.98	164.5
L-3	Back Side of the College Campus	24.86	59.82	178.8
L-4	Left End of the College Campus	21.62	57.72	152.2
NAAQS Limits		80	80	200

Status of Ambient Air Quality within the premises of College

The concentration of NO_x and SO_x (Oxides of Sulphur and Oxides of Nitrogen) at different locations were within permissible limits given by NAAQS. The concentration of suspended particulate matter was higher at L-1 (Main Gate) was higher because of there is presence of main road here and number of vehicles continuously passed through this road. Soil particles are easily mixed in lower atmosphere due to movements of vehicles. Watering is best solution for minimizing the SPM in this area.

Criteria- 7: Green Campus

Objective: To increase the Green Cover within the college campus.

Activity: Plantation.

Audit Observation: Plants such as an Aloe-vera, Neem, Tulsi are planted to increase the oxygen content in the air. Tree plantation drive are regularly carried out in the college premises and also nearby areas.





Green Cover within the College Campus

Good Practices regarding Environmental Activities carried out by the A.D.P.M'S Women's College of Arts, Commerce and Home Science, Jalgaon,

- Tree plantation drive are regularly been carried out in the college premises and also nearby areas
- Use of LED bulbs in institution to save power.
- The college disposes of non- biodegradable waste through Jalgaon Municipal Corporation.
- The college makes sincere efforts to promote carbon neutralization on the campus by strictly adhering to the policy of non -burning of waste in the premises.



Provision of "Fire-Extinguisher" near Library for Prevention of Fire Accident

Recommendations

Following the audit, several recommendations are made to the college authority by external audit team.

Sr. No.	Criteria	Recommendations
1	Environmental (Eco-friendly) Awareness	Sensitize the students and Staff about eco-friendly activities
2	Paper Use	Use email communication for Internal/departmental notices to minimize the use of paper
3	Lighting (Energy)	Use LED lights in laboratories, seminar hall instead of regular tube light to conserve the electricity.
4	Energy (Fuel)	1. Maintain the record of Diesel used for DG set. 2. Control the use of DG set as per requirements only. 3. Monitoring the function of DG set by external party regarding consumption of fuel and working efficiency.

Declaration

I agree with all the recommendations and observations mentioned in this report.

Place: Jalgaon

Date: / / 2019

(Original signed with college seal by,)

Dr. Jayashri M. Nemade
(Principal)