

GREEN AUDIT REPORT



(2020-21)

LATHE EDUCATION SOCIETY.

**SHRIMATI RAJMATI NEMGONDA PATIL
KANYA MAHVIDYALAY, SANGLI.**

(ARTS, SCIENCE AND COMMERCE)



Trailwan

Sr.no	Title	Page. No
1	Acknowledgement	3
2	Introduction	3
3	About the college	3
4	Objective of college	4
5	Assesment methodology	5
6	Waste management	5
7	Energy management	6
8	Tree plantation	7
9	Water management	7
10	Transport management	8
11	Green management	9
12	Bio-diversity	10
13	Conclusion	10
14	College declaration	11



Prailocar

➤ ACKNOWLEDGEMENT

We are grateful to the committee members Of Shrimati Rajmati Nemgonda Patil kanya Mahavidyalay, Sangli to award prestigious project and allow us to step into the new phase of Green Audit in the College Campus.

Further we sincerely thank the college staff for providing us necessary facilities and co-operation during the audit. This helped us in making the audit, a success.

Further we hope, this will boost the new generation to take care of Environment and propagate these vies for many generation to come.

➤ Introduction.

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 Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis the components of environmental diversity. The 'Green Audit' aims to analyze environmental practices within and outside the college campus, which will have impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organization whose exercise.

➤ About the College.

The Lathe Education Society was established on 13th June 1951, with the aim of widespread of Education. Presently, it has nourished into 36 branches from K. G. to P. G. in different faculties and courses with the intake of 25000 students. In Higher Education it embraces Arts, Commerce, Science, Law, Medical, Engineering, Agriculture, Technology discipline. The society has earned the name and fame through its yeomen services during last six decades. The society is pacing with the time by implementing innovative programmer such as Lathe pattern for academic excellence, Award Scheme, Night Study Circle, Lathe Festival, Earn and Learn Scheme, Lathe Career Academy, Computer Academy etc.



P. P. Patil

Present status of college.

Shrimati Rajmati Nemgonda Patil Kanya Mahavidyala was established in 2002, it mainly has three branches Arts, commerce, and science.

The college building has basement floor with G+1 floor.

There are 12 classrooms, 6 cabins, 1 library, 1 girls common room and 1 auditorium classroom.

Basement -14281.64 Sqft

Ground floor-13620.97 Sqft

First floor-14281.64 Sqft

No. of students-461

No. of staffs-25

No. of trees grown -21

No. of bore well-1 (1 hp submersible motor)

Rain Water Harvesting- Done.

Solarium-None.

R.O.system- Provided in ground floor.

Drinking water tank-1-500 liter

Storage water tank-2-2000 liter

No. of vehicles-20

Vermicomposting -None.

Solid waste management- None.

Plastic free- None.

➤ **Objective of the study.**

The main objective of the Green Audit is to promote the environment Management and Conservation in the Campus. The purpose is to identify, quantify, describe and prioritize framework of environmental sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green Audit are:

- To introduce and make students aware of real concerns of environment and its sustainability.
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use on the campus.



Patil/wan

- To bring out a status report on environmental compliance.

➤ Assessment Methodology.

- In order to collect factual data the assessment team has interacted with concerned management personnel and visited different areas of the institution namely common classrooms, utility area, auditorium, gymkhana, office, staff rooms, library, electric room (meter room), water storage under storage and overhead, toilets kitchen and canteen, waste storage area, drainage system landscape ground, green house and parking, to ensure comprehensive coverage the assessment has been categorized into broad modules to facilitate a structured evaluation. The modules are as follows:

Waste management	Tree Plantation Management
Energy Conservation	Transportation Management
Water Management	Green and Biodiversity Management

- The assessment observations are supported by few photographs which have been captured during the visit.

➤ Waste Management:

Observation:

- There are bins provided in each floor of building, but there are no separate bins for general dry garbage and wet garbage.
- Reusing single-sided waste paper as notepads, creating a separate tray in the printing for single-sides used waste paper.
- Cardboard box are reused where possible.
- Disposable paper cups and glass cups are provided for the tea and coffee for all.
- The wet garbage from Canteen, tree leaves are used efficiently for compost.
- Compost is rich in nutrients. It is used for trees and shrubs in the campus.
- For waste water coming from toilets and washrooms they had adopted soak pit method for waste water management.



Pratilwan

- As it is Girls College napkin inselator is installed.

Recommendation:

- Need to separate bins for wastes which helps to segregate wastes easily.
- More awareness programs should be conducted by college for students, college staff about waste management.
- Proper storage and safer disposal of waste, efficient and proper waste treatment, effective waste conservation and increasing resource recovery from waste should be done adequately.
- Need to adopt vermicomposting method for waste management.
- Check for Municipal drainage line.

➤ **Energy Management:**

Observation:

- Florescent tubes are installed in classroom, whereas in office room Led tubes are provided.
- Utilization of natural light when possible and electricity is appropriately used (avoiding its misuse).
- Shady trees are placed surrounding of the college and school.
- The school has a canopy of trees and a plant that the environment carbon dioxide frees and to maintain health of all the inmates.
- The campus has, palm trees, coconut, neem trees, and other trees, which provide shade and beautiful ambience. And also shrubs provided along the pathway.
- Energy is also conserved by using natural light in the classrooms.
- Some classrooms have a lack of natural light and ventilation.
- For each classroom fans are provided.

Recommendation:

- High energy consuming incandescent lights and fluorescent lights in classrooms have to replace by less energy consuming LED lights.
- The college can introduce solar panel to reduce carbon foot print.



Prailwar

➤ Tree Plantation Management:

• Observation:

- College has inadequate amount of tress.
- At entrance of college there are abundant amount of tress, entire front view building is covered by tress which gives beautiful aesthetic view of building.
- Coconut trees, palm trees ,madnodia champac(chafa),samanea saman(rain tree),psidium guava (guava tree),serbania seaban(shevari),duranta erecta,mimusopus elevgi,santaalum album (chandan) are different types of trees present in campus.
- There is some plantation of some medicinal plants like Neem, tulsi, plant which is mostly used in 'Ayurveda'.

• Recommendations:

- College can put some manmade nests to attract some birds which may help them to maintain the ecological balance and the reservoir zone.
- More amounts of trees should be planted in ground campus to reduce pollution; tress like tamarind, pepal should be planted as it gives more oxygen.
- Terrace gardening along with solar panels should be provided.
- Gardening, lawns and varieties of tress should be planted for elegance purpose.
- Rain tree should be cut down.

➤ Water Management:

Observation:

- A water purification system is installed in college building. It is common purification system for college.
- Some were checked during the audit and were found to be standard taps which can save water.
- Washing waste water pipe from canteen and kitchens are used for tress.
- Waste water from toilets is connected to soak pits.
- There is no yet connection to municipal drainage line.



Prailwar

- Building has Rain Water Harvesting system.
- Identification and stoppages of leakages in pipelines is done regularly thus ensuring proper repairs and maintenance.
- Number of bore well activated is one.
- 500 liter water tank is maintained for drinking purpose, there is two tanks of 2000 liter capacity are maintained for toilet and other purposes.

Recommendation:

- Consider carrying out meter reading on a regular basis in order to monitor water usage and set a baseline from which further reductions can be measured.
- Proper installation of appliances which reduce water consumption and installation of aerators/flow restrictors on faucets water consumption.
- Ro system should be installed for each floor but water from that system should be used be utilized for either toilet purpose or for trees.

➤ Transport Management:

Observation

- Use of public transport services, bicycle and pedestrian routes is adopted and used by maximum students.
- Preferred parking land spaces for private vehicles and bicycles are provided for faculty and students.
- Adoption of methods to reduce air pollution and noise intensity levels is done by planting large amount of trees in the surrounding areas around the campus.

Recommendation:

- Encouraging the awareness and usage of sustainable transportation technology.
- Sharing motor vehicles between students is more preferable.

Prailwar



➤ Green Management:

Observation:

- College minimizes the use of all cleaning products and chemical pollutants.
- Avoids the use of pesticides wherever possible.
- College encourages the use of environmentally friendly materials.
- Promotes the information regarding the nature, natural resources, wildlife for the conservation of biodiversity.
- Plantation, pollution and conserving resources and creating awareness of environmental issues and responsibilities.
- Colleges in managing and improving environmental performance.

Recommendation:

- Implementation of a green cleaning program using non-toxic products
- College should strictly ban use of plastic products in the campus.
- Minimizing the ozone depleting substances.
- Limit the use of private vehicles such as two-wheelers and cars instead use public transport where-ever possible.
- Conduct environmental awareness workshops based on.
 - i. Effect of pollution.
 - ii. Need of solid waste management.
 - iii. Socio-economic causes and consequences of future environmental changes.
 - iv. Valuing and managing ecosystem
 - v. Water shed and water management
 - vi. Impact of climate change.
 - vii. Recycling and reuse of materials
- More awareness programs amongst students and other stakeholders (faculty, other staffs, service providers etc.) need to be organized for minimizing solid waste disposal.
- Ensure that the buildings conform to green standards.
- Conservation and maintenance of trees should be carried out regularly.
- Programs and celebration without bouquet.



P. P. Pawar

➤ **Biodiversity Management:**

Observation:

- College can take steps to increase the bird diversity.
- Grasses and herbaceous plants produce numerous seed heads that provides invaluable energy sources for migratory birds.

Recommendation:

- Facilitation of colonization by a more diverse flora and fauna. Adding birds boxes, and trap nests for bees as desired can create a unique and rare habitats.
- Implementing programs to promote awareness, training and proper maintenance of green building design and biodiversity.
- College can create habitat for living organisms in the nature in the order to enhance biodiversity.

➤ **Conclusion:**

The audit team suggests that there are always places where improvement can be made. The audit team suggests you to make changes in the college premises as per our recommendations. The audit team is thankful for your guidance and support

Prepared by: Er Pooja R Pailwan.

Pailwan

Pailwan

Certified by;



➤ **Declaration**

I agree with all the recommendations and observations mentioned in this Green Audit Report for the period of 2020-21. All the information provided for this audit is true and correct.



Prashwan

GREEN AUDIT REPORT

2021-22



Smt. Rajmati Nemgonda Patil Kanya Mahavidyalaya, Sangli



CONSULTANT-



Abhalmaya CS 13700, Local Board Colony/

Near Udyog Bhavan, Sangli 416416 Maharashtra, India

Phone No.:-+91 233 2675888

➤ ACKNOWLEDGEMENT

We are grateful to the committee members Of Shrimati Rajmati Nemgonda Patil kanya Mahavidyalay, Sangli to award prestigious project and allow us to step into the new phase of Green Audit in the College Campus.

Further we sincerely thank the college staff for providing us necessary facilities and co-operation during the audit. This helped us in making the audit, a success.

Further we hope, this will boost the new generation to take care of Environment and propagate these vies for many generation to come.

➤ Introduction.

Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis the components of environmental diversity. The 'Green Audit' aims to analyze environmental practices within and outside the college campus, which will have impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organization whose exercise 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.

➤ About the College.

The Lathe Education Society was established on 13th June 1951, with the aim of widespread of Education. Presently, it has nourished into 36 branches from K. G. to P. G. in different faculties and courses with the intake of 25000 students. In Higher Education it embraces Arts, Commerce, Science, Law, Medical, Engineering, Agriculture, Technology discipline. The society has earned the name and fame through its yeomen services during last six decades. The society is pacing with the time by implementing innovative programmer such as Lathe pattern for academic excellence, Award Scheme, Night Study Circle, Lathe Festival, Earn and Learn Scheme, Lathe Career Academy, Computer Academy etc.

PRESENT STATUS OF COLLEGE.

Shrimati Rajmati Nemgonda Patil Kanya Mahavidyala was established in 2002, it mainly has three branches Arts, commerce, and science.

The college building has basement floor with G+1 floor.

There are 12 classrooms, 6 cabins, 1 library, 1 girls common room and 1 auditorium classroom.

Basement -	14281.64 Sqft
Ground floor-	13620.97 Sqft
First floor-	14281.64 Sqft
No. of students-	461
No. of staffs-	25
No. of trees grown -	21
No. of bore well-	1 (1 hp submersible motor)
Rain Water Harvesting-	Done.
Solarium-	None.
R.O. system-	Provided in ground floor.
Drinking water tank-	1-500 liter
Storage water tank-	2-2000 liter
No. of vehicles-	20
Vermi composting -	None.
Solid waste management-	None.
Plastic free-	None.

➤ **Objective of the study.**

The main objective of the Green Audit is to promote the environment Management and Conservation in the Campus. The purpose is to identify, quantify, describe and prioritize framework of environmental sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green Audit are:

- To introduce and make students aware of real concerns of environment and its sustainability.
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use on the campus.

➤ **Assessment Methodology.**

- In order to collect factual data the assessment team has interacted with concerned management personnel and visited different areas of the institution namely common classrooms, utility area, auditorium, gymkhana, office, staff rooms, library, electric room (meter room), water storage under storage and overhead, toilets kitchen and canteen, waste storage area, drainage system landscape ground, green house and parking, to ensure comprehensive coverage the assessment has been categorized into broad modules to facilitate a structured evaluation. The modules are as follows:

Waste management	Tree Plantation Management
Energy Conservation	Transportation Management
Water Management	Green and Biodiversity Management

- The assessment observations are supported by few photographs which have been captured during the visit.

➤ **Waste Management:**

- **Observations:**
 - There are bins provided in each floor of building, but there are no separate bins for general dry garbage and wet garbage.
 - Reusing single-sided waste paper as notepads, creating a separate tray in the printing for single-sides used waste paper.
 - Cardboard box are reused where possible.
 - Disposable paper cups and glass cups are provided for the tea for all.
 - The wet garbage from Canteen, tree leaves are used efficiently for compost.
 - Compost is rich in nutrients. It is used for trees and shrubs in the campus.
 - For waste water coming from toilets and washrooms they had adopted soak pit method for waste water management.
 - As it is Girls College napkin incinerator is installed.
- **Recommendation:**
 - Need separate bins for dry and wet wastes.

- More awareness programs should be conducted by college for students, college staff about waste management.
- Proper storage and safer disposal of waste, efficient and proper waste treatment, effective waste conservation and increasing resource recovery from waste should be done adequately.
- Need to adopt vermin composting method for waste management.

✓ Energy Management:



• Observations:

- Florescent tubes are installed in classroom, whereas in office room Led tubes are provided.
- Utilization of natural light when possible and electricity is appropriately used (avoiding its misuse).
- Shady trees are placed surrounding of the college and school.
- The school has a canopy of trees and a plant that the environment carbon dioxide frees and to maintain health of all the inmates.
- The campus has, palm trees, coconut, neem trees, and other trees, which provide shade and beautiful ambience. Energy is also conserved by using natural light in the classrooms.
- Some classrooms have a lack of natural light and ventilation.
- For each classroom fans are provided.

- **Recommendations:**

- High energy consuming incandescent lights and fluorescent lights in classrooms have to replace by less energy consuming LED or CFL lights.
- The college can introduce solar panel to reduce carbon foot print.
- Generator should be provided in absence of electricity.

➤ **Tree Plantation Management:**

- **Observations:**

- College has inadequate amount of tress.
- At entrance of college there are abundant amount of tress, entire front view building is covered by tress which gives beautiful aesthetic view of building.
- Coconut trees, palm trees ,madnodia champae (chafa),samanea saman(rain tree),psidium guava (guava tree),serbania seaban(shevari),duranta erecta,mimusopus elevgi,santaalum album (chandani) are different types of trees present in campus.
- There is some plantation of some medicinal plants like Neem, tulsi, plant which is mostly used in 'Ayurveda'.

- **Recommendations:**

- College can put some manmade nests to attract some birds which may help them to maintain the ecological balance and the reservoir zone.
- More amounts of trees should be planted in ground campus to reduce pollution; tress like tamarind, pepal should be planted as it gives more oxygen.
- Terrace gardening along with solar panels should be provided.
- Gardening, lawns and varieties of tress should be planted for elegance purpose.

➤ **Water Management:**

- **Observations:**

- A water purification system is installed in college building. It is common purification system for college.

- Some were checked during the audit and were found to be standard taps which can save water.
- Washing waste water pipe from canteen and kitchens are used for tress.
- Waste water from toilets is connected to soak pits.
- There is no yet connection to municipal drainage line.
- Building has Rain Water Harvesting system.
- Identification and stoppages of leakages in pipelines is done regularly thus ensuring proper repairs and maintenance.
- Number of bore well activated is one.
- 500 liter water tank is maintained for drinking purpose, there is two tanks of 2000 liter capacity are maintained for toilet and other purposes.



- **Recommendations:**

- Consider carrying out meter reading on a regular basis in order to monitor water usage and set a baseline from which further reductions can be measured.
- Proper installation of appliances which reduce water consumption and installation of aerators/flow restrictors on faucets water consumption.
- Ro system should is installed for each floor but water from that system should be used be utilized for either toilet purpose or for tress.

➤ Transport Management:



• Observation

- Use of public transport services, bicycle and pedestrian routes is adopted and used by maximum students.
- Preferred parking land spaces for private vehicles and bicycles are provided for faculty and students.
- Adoption of methods to reduce air pollution and noise intensity levels is done by planting large amount of trees in the surrounding areas around the campus.

• Recommendation:

- Encouraging the awareness and usage of sustainable transportation technology.
- Sharing a motor vehicles between students is more preferable.

➤ Green Management:

• Observation:

- College minimizes the use of all cleaning products and chemical pollutants.
- Avoids the use of pesticides wherever possible.
- College encourages the use of environmentally friendly materials.
- Promotes the information regarding the nature, natural resources, wildlife for the conservation of biodiversity.
- Plantation, pollution and conserving recourses and creating awareness of environmental issues and responsibilities.

- Colleges in managing and improving environmental performance.
- **Recommendation:**
 - Implementation of a green cleaning program using non-toxic products
 - College should strictly ban use of plastic products in the campus.
 - Minimizing the ozone depleting substances.
 - Limit the use of private vehicles such as two-wheelers and cars instead use public transport where-ever possible.
 - Conduct environmental awareness workshops based on.
 - i. Effect of pollution.
 - ii. Need of solid waste management.
 - iii. Socio-economic causes and consequences of future environmental changes.
 - iv. Valuing and managing ecosystem
 - v. Water shed and water management
 - vi. Impact of climate change.
 - vii. Recycling and reuse of materials
 - More awareness programs amongst students and other stakeholders (faculty, other staffs, service providers etc.) need to be organized for minimizing solid waste disposal.
 - Conservation and maintenance of trees should be carried out regularly.
 - Programs and celebration without bouquet.

➤ **Biodiversity Management:**

- **Observation:**
 - College can take steps to increase the bird diversity.
 - Grasses and herbaceous plants produce numerous seed heads that provides invaluable energy sources for migratory birds.
- **Recommendation:**
 - Facilitation of colonization by a more diverse flora and fauna. Adding birds boxes, and trap nests for bees as desired can create a unique and rare habitats.
 - Implementing programs to promote awareness, training and proper maintenance of green building design and biodiversity.
 - College can create habitat for living organisms in the nature in the order to enhance biodiversity.

➤ **Conclusion:**

The audit team suggests that there are always places where improvement can be made. The audit team suggests you to make changes in the college premises as per our recommendations. The audit team is thankful for your guidance and support.

Prepared by:



Er. Pratik U. Deshpande
(M.Tech (CM), B.E Civil, D.C.E)



Certified by:



Architect Pratik B. Chaugule
(B. ARCH, MBA (HR), Master of
Science in Green Building (US))
IGBC Patron Member,
TERI GRIB (Evaluator)

➤ **Declaration**

I agree with all the recommendations and observations mentioned in this Green Audit Report for the period of 2021-22. All the information provided for this audit is true and correct.

ABL/RNP/0353- 0357 /2023-24

27.09.2023

To

DR. MANASI GANU

SHRIMATI.R.N. PATIL KANYA MAHAVIDYALAY

NEMINATHNAGAR, VISHRAMBAUG,SANGLI 416416

DEAR MADAM

Gives me immense PLEASURE to submit you the desired GREEN AUDIT 2022-23 for the NAAC EVALUATION 2023-24. The detailed report and CERTIFICATE is attached here with.

We request you to kindly follow the practice as continuous process and kindly report in monthly to us for proper execution and the results.

WISHING YOU GREAT AND GREEN FUTURE . . !!

Kindly DONATE Rs. 8,888/- in the name of ABHALMAYA FOUNDATION, SANGLI and oblige.

Thanks and regards

Architect
Pramod Chaugule.

& **TEAM ABHALAMAYA**

ENCL :1. Certificate of Green Audit, 2. Detailed Report

\\mycloudx2ultra\cloud\0353 r.n.patil girls highschoo\10 correspondance\01 green audit 2023.docx



स्टुडिओ ८-८-८, लोकल बोर्ड कॉलनी, उद्योगमवनजयळ,

सांगली. ४१६ ४१६ फोन : (०२३३) २६७५८८८

abhalmaya888@gmail.com, arpramodchaugule@gmail.com

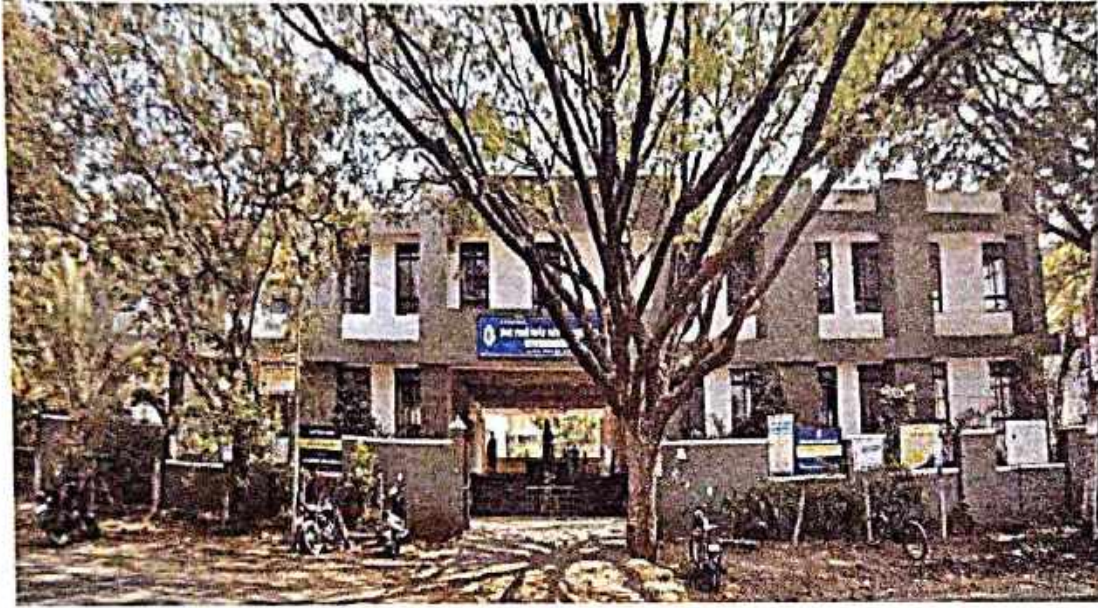
http://www.abhalamaya.org

GREEN AUDIT REPORT

2022-23



Smt. Rajmati Nemgonda Patil Kanya Mahavidyalaya, Sangli



CONSULTANT-



Abhalmaya CS 13700, Local Board Colony/

Near Udyog Bhavan, Sangli 416416 Maharashtra, India

Phone No.:-+91 233 2675888

➤ ACKNOWLEDGEMENT

We are grateful to the committee members Of Shrimati Rajmati Nemgonda Patil kanya Mahavidyalay, Sangli to award prestigious project and allow us to step into the new phase of Green Audit in the College Campus.

Further we sincerely thank the college staff for providing us necessary facilities and co-operation during the audit. This helped us in making the audit, a success.

Further we hope, this will boost the new generation to take care of Environment and propagate these vies for many generation to come.

➤ Introduction.

Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis the components of environmental diversity. The 'Green Audit' aims to analyze environmental practices within and outside the college campus, which will have impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organization whose exercise 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.

➤ About the College.

The Lathe Education Society was established on 13th June 1951, with the aim of widespread of Education. Presently, it has nourished into 36 branches from K. G. to P. G. in different faculties and courses with the intake of 25000 students. In Higher Education it embraces Arts, Commerce, Science, Law, Medical, Engineering, Agriculture, Technology discipline. The society has earned the name and fame through its yeomen services during last six decades. The society is pacing with the time by implementing innovative programmer such as Lathe pattern for academic excellence, Award Scheme, Night Study Circle, Lathe Festival, Earn and Learn Scheme, Lathe Career Academy, Computer Academy etc.

PRESENT STATUS OF COLLEGE.

Shrimati Rajmati Nemgonda Patil Kanya Mahavidyala was established in 2002, it mainly have three branches Arts , commerce, and science.

The college building has basement floor with G+1 floor.

There are 12 classrooms, 6 cabins, 1 library, 1 girls common room and 1 auditorium classroom.

Basement -	14281.64 Sqft
Ground floor-	13620.97 Sqft
First floor-	14281.64 Sqft
No .of students-	461
No. of staffs-	25
No .of trees grown -	21
No of bore well-	1 (1 hp submersible motor)
Rain Water Harvesting-	Done.
Solarium-	None.
R.O.system-	Provided in ground floor.
Drinking water tank-	1-500liter
Storage water tank-	2-2000 liter
No. of vehicles-	20
Vermi composting –	None.
Solid waste management-	None.
Plastic free-	None.

➤ Objective of the study.

The main objective of the Green Audit is to promote the environment Management and Conservation in the Campus. The purpose is to identify, quantify, describe and prioritize framework of environmental sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green Audit are:

- To introduce and make students aware of real concerns of environment and its sustainability.
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use on the campus.

➤ **Assessment Methodology.**

- In order to collect factual data the assessment team has interacted with concerned management personnel and visited different areas of the institution namely common classrooms, utility area, auditorium, gymkhana, office, staff rooms, library, electric room (meter room), water storage under storage and overhead, toilets kitchen and canteen, waste storage area, drainage system landscape ground, green house and parking, to ensure comprehensive coverage the assessment has been categorized into broad modules to facilitate a structured evaluation. The modules are as follows:

Waste management	Tree Plantation Management
Energy Conservation	Transportation Management
Water Management	Green and Biodiversity Management

- The assessment observations are supported by few photographs which have been captured during the visit.

➤ **Waste Management:**

• **Observations:**

- There are bins provided in each floor of building, but there are no separate bins for general dry garbage and wet garbage.
- Reusing single-sided waste paper as notepads, creating a separate tray in the printing for single-sides used waste paper.
- Cardboard box are reused where possible.
- Disposable paper cups and glass cups are provided for the tea for all.
- The wet garbage from Canteen, tree leaves are used efficiently for compost.
- Compost is rich in nutrients. It is used for trees and shrubs in the campus.
- For waste water coming from toilets and washrooms they had adopted soak pit method for waste water management.
- As it is Girls College napkin incinerator is installed.

• **Recommendation:**

- Need separate bins for dry and wet wastes.

- More awareness programs should be conducted by college for students, college staff about waste management.
- Proper storage and safer disposal of waste, efficient and proper waste treatment, effective waste conservation and increasing resource recovery from waste should be done adequately.
- Need to adopt vermin composting method for waste management.

➤ Energy Management:



• Observations:

- Florescent tubes are installed in classroom, whereas in office room Led tubes are provided.
- Utilization of natural light when possible and electricity is appropriately used (avoiding its misuse).
- Shady trees are placed surrounding of the college and school.
- The school has a canopy of trees and a plant that the environment carbon dioxide frees and to maintain health of all the inmates.
- The campus has, palm trees, coconut, neem trees, and other trees, which provide shade and beautiful ambience. Energy is also conserved by using natural light in the classrooms.
- Some classrooms have a lack of natural light and ventilation.
- For each classroom fans are provided.

- **Recommendations:**

- High energy consuming incandescent lights and fluorescent lights in classrooms have to replace by less energy consuming LED or CFL lights.
- The college can introduce solar panel to reduce carbon foot print.
- Generator should be provided in absence of electricity.

➤ **Tree Plantation Management:**

- **Observations:**

- College has inadequate amount of tress.
- At entrance of college there are abundant amount of tress, entire front view building is covered by tress which gives beautiful aesthetic view of building.
- Coconut trees, palm trees ,madnodia champae (chafa),samanea saman(rain tree),psidium guava (guava tree),serbania seaban(shevari),duranta erecta,mimusopus elevgi,santaalum album (chandan) are different types of trees present in campus.
- There is some plantation of some medicinal plants like Neem, tulsi, plant which is mostly used in 'Ayurveda'.

- **Recommendations:**

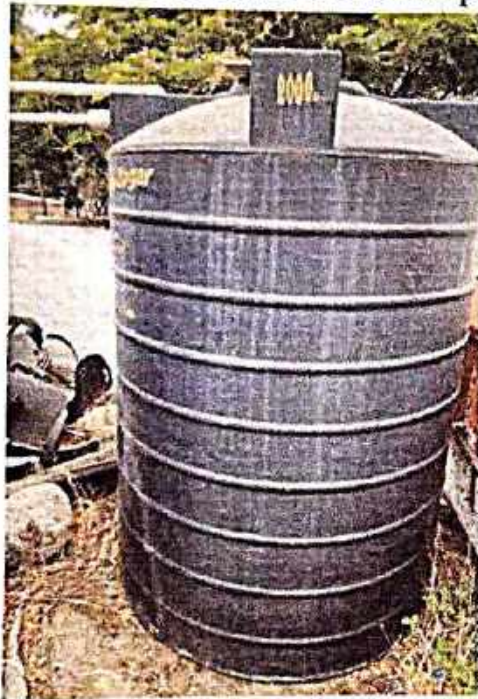
- College can put some manmade nests to attract some birds which may help them to maintain the ecological balance and the reservoir zone.
- More amounts of trees should be planted in ground campus to reduce pollution; tress like tamarind, pepal should be planted as it gives more oxygen.
- Terrace gardening along with solar panels should be provided.
- Gardening, lawns and varieties of tress should be planted for elegance purpose.

➤ **Water Management:**

- **Observations:**

- A water purification system is installed in college building. It is common purification system for college.

- Some were checked during the audit and were found to be standard taps which can save water.
- Washing waste water pipe from canteen and kitchens are used for tress.
- Waste water from toilets is connected to soak pits.
- There is no yet connection to municipal drainage line.
- Building has Rain Water Harvesting system.
- Identification and stoppages of leakages in pipelines is done regularly thus ensuring proper repairs and maintenance.
- Number of bore well activated is one.
- 500 liter water tank is maintained for drinking purpose, there is two tanks of 2000 liter capacity are maintained for toilet and other purposes.



• **Recommendations:**

- Consider carrying out meter reading on a regular basis in order to monitor water usage and set a baseline from which further reductions can be measured.
- Proper installation of appliances which reduce water consumption and installation of aerators/flow restrictors on faucets water consumption.
- Ro system should is installed for each floor but water from that system should be used be utilized for either toilet purpose or for trees.

➤ Transport Management:



• Observation

- Use of public transport services, bicycle and pedestrian routes is adopted and used by maximum students.
- Preferred parking land spaces for private vehicles and bicycles are provided for faculty and students.
- Adoption of methods to reduce air pollution and noise intensity levels is done by planting large amount of trees in the surrounding areas around the campus.

• Recommendation:

- Encouraging the awareness and usage of sustainable transportation technology.
- Sharing a motor vehicles between students is more preferable.
- Use of bicycles for short distance is recommended.

➤ Green Management:

• Observation:

- College minimizes the use of all cleaning products and chemical pollutants.
- Avoids the use of pesticides wherever possible.
- College encourages the use of environmentally friendly materials.
- Promotes the information regarding the nature, natural resources, wildlife for the conservation of biodiversity.

- Plantation, pollution and conserving resources and creating awareness of environmental issues and responsibilities.

- Colleges in managing and improving environmental performance.

• **Recommendation:**

- Implementation of a green cleaning program using non-toxic products
- College should strictly ban use of plastic products in the campus.
- Limit the use of private vehicles such as two-wheelers and cars instead use public transport where-ever possible.
- Conduct environmental awareness workshops based on.
 - i. Effect of pollution.
 - ii. Need of solid waste management.
 - iii. Socio-economic causes and consequences of future environmental changes.
 - iv. Valuing and managing ecosystem
 - v. Water shed and water management
 - vi. Impact of climate change.
 - vii. Recycling and reuse of materials
- More awareness programs amongst students and other stakeholders (faculty, other staffs, service providers etc.) need to be organized for minimizing solid waste disposal.
- Conservation and maintenance of trees should be carried out regularly.
- Programs and celebration without bouquet.

➤ **Biodiversity Management:**

• **Observation:**

- College can take steps to increase the bird diversity.
- Grasses and herbaceous plants produce numerous seed heads that provides invaluable energy sources for migratory birds.

• **Recommendation:**

- Facilitation of colonization by a more diverse flora and fauna. Adding birds boxes, and trap nests for bees as desired can create a unique and rare habitats.
- Implementing programs to promote awareness, training and proper maintenance of green building design and biodiversity.
- College can create habitat for living organisms in the nature in the order to enhance biodiversity.

➤ **Conclusion:**

The audit team suggests that there are always places where improvement can be made. The audit team suggests you to make changes in the college premises as per our recommendations. The audit team is thankful for your guidance and support.

Prepared by:



Er. Pratik U. Deshpande
(M.Tech (CM), B.E Civil, D.C.E)



Certified by:



Architect Pramod B. Chaugule
(B. ARCH, MBA (HR), Master of
Science in Green Building (US))
IGBC Patron Member,
TERI GRIHA Evaluator)

➤ **Declaration**

I agree with all the recommendations and observations mentioned in this Green Audit Report for the period of 2022-23. All the information provided for this audit is true and correct.


Ref:0342/0357/2023

Date:-27/09/2023

CERTIFICATE

This is to certify that "Abhalmaya Foundation" has conducted green audit at "Shrimati Rajmati Nemgonda Patil Kanya Mahavidyalaya, Sangli" in the academic year 2022-23. The Green audit involves initiatives, planning, efforts, activities implemented in the college campus like environmental promotional activities, water and waste water management, rain water harvesting, tree plantation, energy conservation, paperless technology and various environmental awareness activities. This Green audit is also aimed to assess impact of green initiatives for maintenance of the campus in an eco friendly manner.

The college has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified and the efforts are found to be satisfactory. The efforts taken by the management, faculty, and students towards green campus are highly appreciated.


Ek. Pratik U. Deshpande
(Green Audit Incharge)




Architect Pr. Arpramod B. Chaugule
(CEO/Auditor)

Ref: 0342/0163/2023

Date: -01/07/2023


CERTIFICATE

This is to certify that " Abhalmaya Foundation" has conducted green audit at "Shrimati Rajmati Nemgonda Patil Kanya Mahavidyalaya, Sangli" in the academic year 2021-22 . The Green audit involves initiatives, planning, efforts, activities implemented in the college campus like environmental promotional activities, water and waste water management, rain water harvesting, tree plantation, energy conservation, paperless technology and various environmental awareness activities. This Green audit is also aimed to assess impact of green initiatives for maintenance of the campus in an eco friendly manner.

The college has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified and the efforts are found to be satisfactory. The efforts taken by the management, faculty, and students towards green campus are highly appreciated.



Er. Pratik U. Deshpande
(Green Audit Incharge)



Architect Pramod B. Chaugule
(CEO/Auditor)