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Bhartiya Shikshan Prasarak Sanstha Amabajogai's

Shri Siddheshwar Mahavidhalaya, Majalgaon





Internal Quality Assurance Cell

Criterion 7-Institutional Values and Best Practices

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution.

The institutional environment and energy initiatives are confirmed through the following

- 1. Green audit / Environment audit
- 2. Energy audit
- 3. Clean and green campus initiatives
- 4. Beyond the campus environmental promotion activities

IQAC Coordinator

Website:www.ssmm.ac.in Co-Ordinator

IQAC

Shri Siddheshwar Mahavidyalaya Majalgaon Dist. Beed (M.S.)



Principal
Principal
Shri Siddheshwar Mahavidyalaya
Majalgaon,Dist.Beed 431 131

Proon Fudit Cortificate (Fis per Green Building Parameters)

The study is conducted as per Indian and International Green Building Standards initiated in the capacity of an Accredited & Certified Green Building Professional

It is awarded for 2021-2022 and 2022-2023 to the Esteemed Institution

(Analysed for 2 years and extended validity for 1 year, thus total 3 years)

Bhartiya Sh kshan Prasarak Sanstha's

Shri. Siddheshwar Mahavidyalaya

Majalgaon, Beed District-431131, Maharashtra, India

We appreciate the immense efforts taken by Staff and students towards the Efficient Management of Premise. As part of the Institution's initiatives for a Healthy & Sustainable Institute the audit was conducted

Issued on Thursday, 04 May 2023 and valid till 30 April 2024

Ar. Nahida Abdulla Shaikh

"Elite 100 Green Architects of India" Econaur, 2022 Certified Green Building Professional (Registration, No. 22/718)

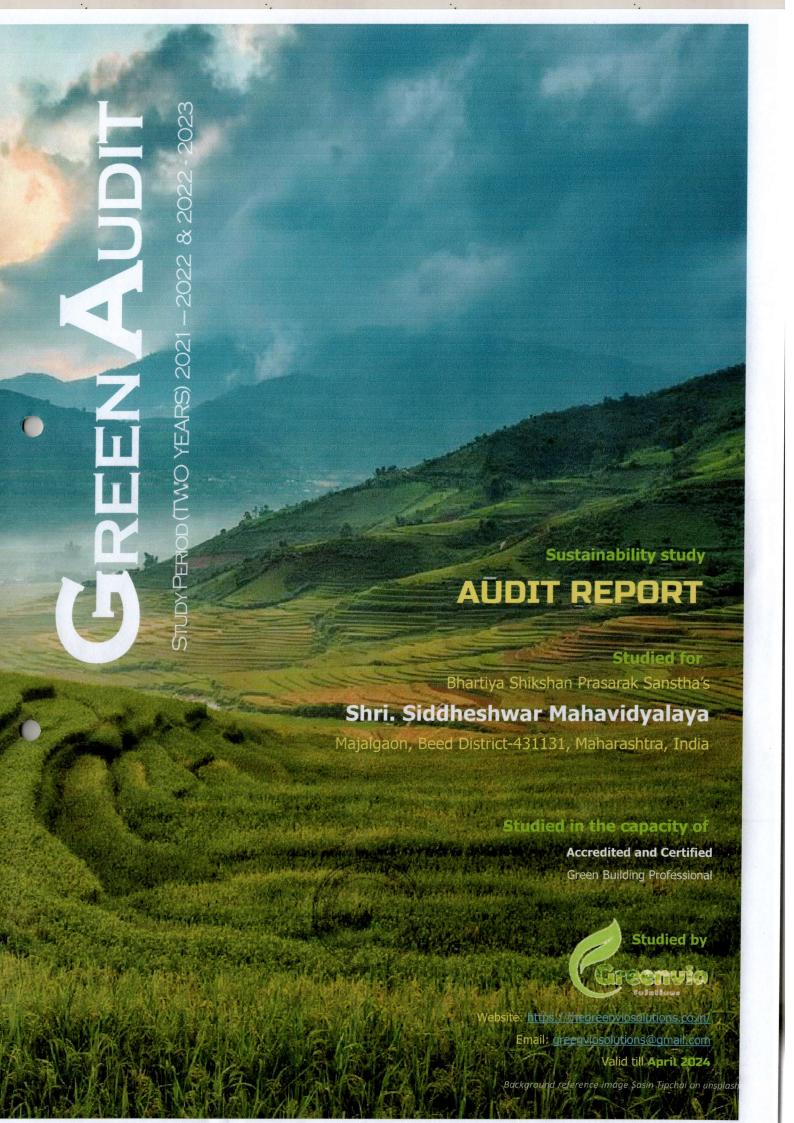
Project Head and Green Building Professional-Consultant

Sustainable Academe I Sustai ability Department of Greenvio Solutions, Naigaon An environment Design and Consultancy developing Healthy and Sustainable Environment Sustainabl



Website https://thegreenviosolutions.co.in/





Disclaimer

The Audit Team has prepared this report for the **Bhartiya Shikshan Prasarak Sanstha's Shri. Siddheshwar Mahavidyalaya** located at <u>Majalgaon, Beed District-431131, Maharashtra, India</u> based on input data submitted by the College analysed by the team to the best of their abilities.

The details have been consolidated and thoroughly studied as per the various guidelines for Green Buildings available in National and International Standards; the report has been generated based on comparative analysis of the existing facilities and the prerequisites formulated by various standards. The inputs derived are a result of the inspection and research. These will further enhance and develop a Healthy and Sustainable Institution.

These can be implemented phase wise or as a whole depending on the decision taken by the Hon'ble Management and College. The warranty or undertaking, expressed 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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The Report is prepared by the Team of Greenvio Solutions under their brand and department – Sustainable Academe as Consultancy firm with the Project Head - Ar. Nahida Shaikh who is as an Accredited and Certified Green Building Professional-Architect. Green Building consultancy is her forte and she is one of the most sought after names when it comes to providing excellent quality services within the stipulated time frame.

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The Study is conducted in capacity of Accredited & Certified Green Building Professional with extensive experience.

Greenvio Solutions

Developing Healthy and Sustainable Environments
We are an Environmental and Architectural Design Consultancy firm
Sustainable Academe is our department for conducting Audits
Palghar District, Maharashtra- 401208

sustainableacademe@gmail.com







Acknowledgement

The Audit Assessment Team thanks the **Bhartiya Shikshan Prasarak Sanstha's Shri. Siddheshwar Mahavidyalaya, Maharashtra, India** for assigning this important work of Green Audit. We appreciate the cooperation extended to our team during the entire process.

Our special thanks are due to **Mr. Jitesh Dullabhdas Chapasi**, President; **Mr. Vishnu Shyamrao Kulkarni**, Secretary and everyone from the Management.

Our heartfelt thanks to Chairpersons of the entire process **Prof. Suhas Morale,** Principal for their valuable inputs.

We are also thankful to **College's Task force the faculty members** who have collected data required **Dr. Vinayak Deshmukh**, IQAC Co ordinator; **Dr. Gajanan Honna**, Vice-Principal; **Dr. Youvraj Muley**, Vice-Principal; **Dr. Sanjay Pawar**, Chairman Criteria VII; **Dr. Swati Kulkarni**, Member Criteria VII and **Dr. Jijaram Bagal**, Member Criteria VII

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Brand of Greenvio Solutions, Palghar District, Maharashtra- 401208

Co-Ordinator
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Chri Siddheshwar Mahavidyalaya



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Greenvio

Introduction 1.

1.1 About the Institute

A few educationalists in Bhartiya Shikshan Prasarak Sanstha, Ambajogai, understood that 'education is the most powerful weapon which you can use to change the world' with this understanding Shri. Siddheshwar Mahavidyalaya, Majalgaon started on 15 June 1996.

- The College has achieved an 'A' grade in Academic and Administrative Audit by the parent university.
- The Government of Maharashtra appreciated the NSS unit of our College as the Best NSS unit.
- The District Election Officer too has awarded the College with an Appreciation letter.

The College organizes many skill-based and value-added courses. Students are encouraged to participate in various competitions and training organized by the parent university and various Colleges.

The College motivate undergraduate students of all faculties to research attitudes during graduation, additionally research facilities are provided for Ph.D. students in the subjects: Economics, Sociology, Political Science, History, Marathi, Hindi, Zoology, Botany, and Physics.

Vidyasabha, the think tank of the institution design and implements the year plans for teaching-learning. The teaching-learning process is partially ICT enabled with an audiovisual facility. All the curricular, co-curricular, and extra-curricular activities of the College aim to develop the holistic personality of learners and aim towards making healthy and moral citizens.

College staff has started a scheme of funds to help economically backward students and bring them into the stream of hassle-free education.

The College begins with the national anthem and any program is concluded with the shanti mantra or Pasaydan, which reflects the name of the institution.

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1.2 Statements of the Institution

1.2.1 Vision

The College proposes <u>"To build a tradition of ideal citizens loyal to democracy, virtuous, scholarly, morally sound and nationalist through Indian education."</u>

1.2.2 Mission

The College adheres and focuses towards:

- Nation building through man making and character building.
- To adopt requisite pedagogies for quality awareness of knowledge and skills among the students for fulfilment of national and international requirements.
- To promote the competencies of the students by imparting value added education to face challenges of rapid changing world.
- To promote teachers and students to undertake academic activities and training programmes related with higher education.

1.2.2 Aim

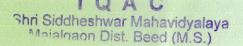
The College has formulated the following aim "<u>To render quality education for the rural</u> area students and to bring transformation in the life of people residing in the rural area of Majalgaon tehsil."

1.2.4 Objective

It is the objective of the College

- To promote facilities of higher education in rural areas.
- To provide graduate and post graduate education under various faculties in and around Majalgaon area.
- To provide adult and continuing education services.
- To implement schemes and projects for all round development of students.
- To create awareness among youth about development and self-reliance.
- To contribute in social awaking and social change through education.





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1.3 Assessment of the Institute

1.3.1 Affiliations

The Institute is affiliated to **Dr. Babasaheb Ambedkar Marathwada University**, **Aurangabad.**

1.3.2 Certification

The College has received AISHE – The All India Survey of Higher Education code is C-34440.

1.3.3 Accreditation

The following are details of the accreditation awarded by the National Assessment & Accreditation Council (NAAC) to the College.

Cycle	First	Second		
CGPA	1.89	2.46		
Grade	C	В		
Year	2014	2021		

Table 1: NAAC Accreditation details of the Institute

The College is due to enter its Third cycle of NAAC.

1.3.4 Recognitions

The College has upgraded in the teaching level – Under graduate to Post graduate in the section 2(f) and 12 (B) of the University Grants Council Act, 1956.





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2. Overview

2.1 Summarised Populace analysis for 2022-2023

2.1.1 Students data

The data (shared by the Institute) shows there were a total of **426 male and 431** female students.

2.1.2 Staff data

S. No.	Туре	Male	Female	Total
1	Admin staff	04	01	05
2	Teaching staff	22	03	25
3	Non-Teaching staff	14	02	16
Total S	taff Members	40	06	46

Table 2: Staff data of the Institution for 2022-2023

The staff data shows the College premises had a total of 46 Staff Members.

2.2 Summarised Populace analysis for 2021-2022

2.2.1 Students data

The data (shared by the Institute) shows there were a total of **419 male and 396** female students.

2.2.2 Staff data

S. No.	Туре	Male	Female	Total
1	Admin staff	04	01	05
2	Teaching staff	22	02	24
3	Non-Teaching staff	14	02	16
Total S	Staff Members	40	05	45

Table 3: Staff data of the Institution for 2021-2022

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The staff data shows the College premises had a total of 45 Staff Members.

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2.2 Total College Area & College Building Spread Area

The total site area is 1.3 acres and the total Built-up area of the Institute is 46,016 sq. ft. for an approximately 903 footfalls.

2.3 Institute Infrastructure

2.3.1 Establishment

The Institute was established in 15 June 1996...

2.3.2 Spatial Organisation

There are provisions for staircase for accessibility on the premises, whereas there are amenities such as CCTV, a first aid room, etc. The Institute is located prettyclose to nature and hence has a very fresh environment which is absolutely pollution free and healthy. The Building is a Reinforced Cement Concrete (RCC) framework building.

2.4 Operation and Maintenance of the premises

The interview session was held with the staff regarding the operation and working hours. The Institution is open from Monday to Saturday for around 08:00 hours to 17:30 hours.

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3. Research

3.1 About the Green Building Study Audit

It is a systematic study of the aspects which make the Institution sustainable and healthy premises for its inhabitants.

3.2 Analysis of the Green Building Study Audit

The procedure included detailed verification as follows:

- Investigation
- Technical discussion with team
- Observations
- Inferences

3.3 Strategy adopted for Green Building Study Audit

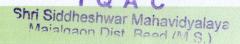
The strategies included data collection from the admin department, actual inventory, investigation to check the operation and maintenance, analysis of the data collection, and preparation of the Report.

3.4 Activities undertaken for the Green Building Study Audit

- Discussion with the Institute
- Allotment and Initiation by the Institute
- Data collection
- Submission of the files



Principal Shri Siddheshwar Mahavidyaleya Mejalgeen,Dist.Beed 431 131



Co-Ordinator



4. Green Practices Audit

The increasing global warming and climate change have made us realise that apart from the enormous strategies the individual small efforts need to be taken by individuals and Educational Institutes as the younger generations are the future of the world and once they are taught about these practices only then can we assume a better future.

4.1 Green practices

We observed the following points during the Site investigation and data verification of the premises; these are common for all the Buildings on the premises.

- Social awareness The College has taken up awareness drives on various social issues for rural upliftment and regeneration in the College and surrounding villages.
- ⇒ Fresh environment The College provides an eco-friendly ambience with fresh air and soothing environment which helps to maintain a physical and mental balance. This kind of a space it a must for an educational specially technical institute which is inviting and gives the stakeholders an opportunity to explore indoor and outdoor learning to a great extent.
- Team work The best quality of the College which sets it apart is its coordinating, cooperative staff members; for a building the foundation plays the most important role for its future similarly for an educational institute its staff members do.

4.2 Community development

The College conducts environmental initiatives documented as follows:

- Guidance by Principal: World water day 22 March 2021
- Tree plantation program: World environmental day 5 June 2020
- Tree conservation in Nakalgaon by college students during NSS camp 2021-22
- Tree plantation by students at Nakalgaon in NSS camp 2021-22





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4.3 Section-wise recommendations related to 'Green practices'

The following suggestions are to be considered as a *first priority* for implementation. These **should be executed within the next 1.5 to 2.5 years from the date of the Report submission.** The Institute can execute a plan after discussion with Project Head.

- → Plant as a gift As a kind gesture, the guests visiting the premise can be asked to plant a small plant on the premise itself and they can be even given plants/bouquets from the flowers of the plants on the premise as a gift.
- Environmental awareness There can be various artworks on the compound wall giving the message of saving the environment through the joint efforts of the students and staff thereby making the student socially and environmentally responsible citizens.
 - Documentation Improve and increase the documentation and visibility/ reflectance
 of the environment related events on the website, social media handles
 - Increase the organic farming practices The premises can have an organic farming facility in terms of farms, kitchen, terrace gardens the produce can be directly utilised in the premises.

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5. Waste Audit

Waste is an inevitable part of our lives. Over the years the awareness about waste management techniques has given a rise to rethink how the waste can be avoided being sent to the landfills. The audit provides an approximation of the types of waste generated, location of waste collections, disposal techniques used, waste segregation methodologies adopted, and waste management strategies that are implemented in addition to the newer ways that can be adopted aiming to make the premise clean and sustainable.

5.1 Waste produced

- Solid waste − The solid waste from the toilets is let into the storm water drains.
 We suggest undertaking a biogas plant in the premises as there is availability of land and resources.
- Liquid waste − The blank and grey water from the wash basin and kitchens, toilets is let into the storm water drains. We suggest undertaking a septic tank plant in the premises as there is availability of land and resources.
- **E-waste management** − <u>We suggest practicing a dedicated E-waste collection</u> <u>drive and utilising the same for a best out of waste installation.</u>
- → Plastic waste The current practices involve sensitization programs and awareness drives, however <u>we suggest practicing a dedicated Plastic collection</u> <u>drive and utilising the same for a best out of waste installation.</u>
- Bio-waste <u>The sanitary vending machine are in working conditions and these</u> <u>are used as substitutes for bio-waste management.</u>
- Organic waste- There are two rectangular pits under construction for the pit.

5.2 Bins summary

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Shri Siddheshwar Mahavidyalaya

There are 12 dustbins inside the premises and 2 dustbins outside the premises in open areas; these are available in the form of plastic bins.

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Principal Shri Sladheshwar Mahavidyaleya Majalgeen,Dick Seed 431 131 Greenvio

5.3 Section-wise recommendation related to 'waste audit'

The following suggestions are to be considered as a *first priority* for implementation. These **should be executed within the next 1.5 to 2.5 years from the date of the Report submission.** The Institute can execute a plan after discussion with Project Head.

- Twin Dual Litter Dustbin Bins There should be more number of dual litter dustbins at various locations in areas such as Canteen, and open spaces. This would inculcate the awareness of waste segregation among students.
- Signages Messages about avoiding wastage should be placed at appropriate locations.
 - Dustbins at every 100m There should be a dustbin at every 50-100 in the open spaces
 - Material of the dustbin The current plastic dustbins should be replaced with ecofriendly material.

Co-Ordinator I Q A C Shri Siddheshwar Mahavidvalavā Malalga Malalg

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6. Water Audit

Water is one of the basic needs. Pure drinking water is a resource that needs to be preserved efficiently. A water audit helps to identify the sources of water consumption, and the water requirement by the premises is met by these sources. The points and effective usage without any wastage. Understanding the techniques which are best suited to the site to increase water conservation in terms of awareness and practice.

6.1 Water availability and consumption

6.1.1 Source of Primary water supply

The College requires water from the Local Gram panchayat for drinking water purposes.

On Terrace 13 tanks of capacity 3,000L-1; 2,000L-1; 1,000L-9; 500L-2 are placed. Out of these 2 tanks of 1000 liters, are on the second floor for drinking water plant.

6.1.2 Source of Secondary water supply

The College uses the secondary sources of water supply for general usages such as watering plants, kitchen, toilets, and wash basins connected to the labs and other spaces.

At present, there is 1 bore well available in the premises as secondary sources of water supply.

●6.1.3 Source of Tertiary water supply

The tertiary source of water is the additional source of water harvesting. <u>We have suggested adopting practice of rain water bunds around every block and connecting the overflow pipes of the artificial water pond (farm pond) to the well for ground water recharge.</u>

6.1.4 Source of Reusing waste water

The initiative is not under practice at present completely only the chemicals are neutralized before letting it down in the drains. We have suggested to under practices of green chemistry as per discussion during the induction and exit meeting on site to treat the waste water from the laboratories and reused the same after filtering for watering the plants and the trees in the premises.

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6.2 Areas of water usage

Based on the inventory done and data shared by the staff it was found that the premise has the following facilities:

- Urinals 6 nos.
- Toilets 6 nos.
- Washbasins 7 nos.
- Taps (Indoors) 27 nos.
- Taps (Outdoors) 7 nos.

As per the data shared by the College and on-site observation, it was noted that there is no water wastage of water in the form of Cleanliness of toilets.

6.3 Recommendations for a Sustainable Habitat

The following suggestions are to be considered as a *first priority* for implementation. These **should be executed within the next 1.5 to 2.5 years from the date of the Report submission.** The Institute can execute a plan after discussion with Project Head.

- Rain water bunds There should be landscape beautification project undertaken to appropriate channelize the rain water through bunds and similar facilities.
- Waterless urinals There can be the provision of waterless urinals as a Green Building initiative in the premise, either the existing ones can be replaced with such a facility or new toilets can be constructed in this manner.
- Signages Messages about avoiding water wastage should be placed at appropriate locations.





Principal Shri Shidheelwar Mahavidyalaya Majalgaen,Dist.Beed 431 131



7. Health and Hygiene Audit

The hygiene is a part and parcel of our daily life. It is extremely essential to keep the surroundings clean in the same manner as we would want our houses to be. Educational Institutes have a bigger role to play in order to affect the young minds in the positive manner through better hygienic practices.

7.1 Facilities available

The Institution has washroom facility, hand wash, drinking water and dustbin facilities.

7.2 Smoke Exposure

The Institution is a smoke free premise which helps in adapting to a Healthy Institution

7.3 Hygiene

- There was certain odour issue faced during the investigation.
- The areas of water tanks in site on ground floor are clean

7.4 Section-wise recommendation related to 'Health and hygiene audit'

The following suggestions are to be considered as a *first priority* for implementation. These **should be executed within the next 1.5 to 2.5 years from the date of the Report submission.** The Institute can execute a plan after discussion with Project Head.

- Courtyards and duct areas These are located in the internal and setback should have vertical gardens for beautification.
- → Health related provisions There should be provisions for a dedicated health centre and 24x7 available ambulance services inside the premises.
- Avoid burning waste The waste produced on the premises should not be burned as it is dangerous to the health of students and staff
 Co-Ordinator

Principal
Shri Siddhechwar Mahavidyalaya
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- Signboards − The Institute should have multiple signboards about 'No smoking' and 'Healthy premises' at every nook and corner of the Institute.
- Compound wall The compound wall should have awareness messages about 'No Smoking' and 'No Tobacco'
- Toilet hygiene There should be facilities such as potpourri, camphor tablets in the toilet to avoid smell and health related issues.

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8. Compilation

The study is based on the data collected, analysed, rechecked, and confirmed through multiple modes. For the quality study, some standards/ notes have been referred to. These are listed and noted below. However, no direct references have been used anywhere. These are used as a base to analyse and study the data collected.

- Uniform Plumbing Code India, 2008
- ⇒ IGBC Green Existing Buildings Operation & Maintenance (O&M) Rating system, Pilot version, Abridged Reference Guide, April 2013
- IGBC Green Landscape Rating system, March 2013
- BOMA Canada Waste Auditing Guide, Best Environmental Standards, BOMA BEST – Canada
- Used only for understanding Universal design Universal Accessibility Guidelines for Pedestrian, Non-motorized vehicle and Public Transport Infrastructure – Report guidelines by Samarthyam (National center for Accessible Environments)
 – an initiative supported by Shakti Sustainable Energy Foundation and www.umassd.edu
- The city of Cheyenne, Streetscape/ Urban Design elements Wyoming Planning Association, Gillette, Wyoming, United States
- Images on site by Coordinators of the both teams
- Icon images used by https://www.vecteezy.com/free-vector/security-camera-icon and https://www.vecteezy.com/free-vector/electric-car-icon

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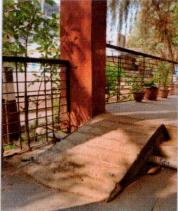
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The campus building in the premises







Investigative parameters – Ecological Management – Plantations, ramp and shaded parking stand







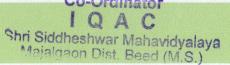
Investigative parameters – Water Management – Water usage and sources







Investigative parameters – Waste Management – Under process compost pit, dustbins and clean premises





Environment Hudit Certificate (Be per Green Building Parameters)

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Bhartiya Shikshan Prasarak Sanstha's

Shri. Siddheshwar Mahavidyalaya

Majalgaon, Beed District-431131, Maharashtra, India

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PERIOD (TWO YEARS) 2021 - 2022 & 2022 - 2023

Sustainability study

AUDIT REPORT

Studied for

Bhartiya Shikshan Prasarak Sanstha's

Shri. Siddheshwar Mahavidyalaya

Majalgaon, Beed District-431131, Maharashtra, India

Studied in the capacity of

Accredited and Certified

Green Building Professional



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Valid till April 2024

Background reference image Nic Y C Gua on unsplas

Disclaimer

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Acknowledgement

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Our heartfelt thanks to Chairpersons of the entire process **Prof. Suhas Morale,** Principal for their valuable inputs.

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Brand of Greenvio Solutions, Palghar District, Maharashtra- 401208







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Comment.

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1. Introduction

1.1 About the Institute

A few educationalists in Bhartiya Shikshan Prasarak Sanstha, Ambajogai, understood that 'education is the most powerful weapon which you can use to change the world' with this understanding Shri. Siddheshwar Mahavidyalaya, Majalgaon started on 15 June 1996.

- The College has achieved an 'A' grade in Academic and Administrative Audit by the parent university.
- ⇒ The Government of Maharashtra appreciated the NSS unit of our College as the Best NSS unit.
- The District Election Officer too has awarded the College with an Appreciation letter.

The College organizes many skill-based and value-added courses. Students are encouraged to participate in various competitions and training organized by the parent university and various Colleges.

The College motivate undergraduate students of all faculties to research attitudes during graduation, additionally research facilities are provided for Ph.D. students in the subjects: Economics, Sociology, Political Science, History, Marathi, Hindi, Zoology, Botany, and Physics.

Vidyasabha, the think tank of the institution design and implements the year plans for teaching-learning. The teaching-learning process is partially ICT enabled with an audio-visual facility. All the curricular, co-curricular, and extra-curricular activities of the College aim to develop the holistic personality of learners and aim towards making healthy and moral citizens.

College staff has started a scheme of funds to help economically backward students and bring them into the stream of hassle-free education.

The College begins with the national anthem and any program is concluded with the shanti mantra or Pasaydan, which reflects the name of the institution.

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1.2 Statements of the Institution

1.2.1 Vision

The College proposes <u>"To build a tradition of ideal citizens loyal to democracy,</u> virtuous, scholarly, morally sound and nationalist through Indian education."

1.2.2 Mission

The College adheres and focuses towards:

- Nation building through man making and character building.
- To adopt requisite pedagogies for quality awareness of knowledge and skills among the students for fulfilment of national and international requirements.
- To promote the competencies of the students by imparting value added education to face challenges of rapid changing world.
- To promote teachers and students to undertake academic activities and training programmes related with higher education.

1.2.2 Aim

The College has formulated the following aim "<u>To render quality education for the rural</u> area students and to bring transformation in the life of people residing in the rural area of Majalgaon tehsil."

1.2.4 Objective

It is the objective of the College

- To promote facilities of higher education in rural areas.
- To provide graduate and post graduate education under various faculties in and around Majalgaon area.
- To provide adult and continuing education services.
- To implement schemes and projects for all round development of students.
- To create awareness among youth about development and self-reliance.
- To contribute in social awaking and social change through education.



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1.3 Assessment of the Institute

1.3.1 Affiliations

The Institute is affiliated to **Dr. Babasaheb Ambedkar Marathwada University**, **Aurangabad.**

1.3.2 Certification

The College has received AISHE – The All India Survey of Higher Education code is C-34440.

1.3.3 Accreditation

The following are details of the accreditation awarded by the National Assessment & Accreditation Council (NAAC) to the College.

Cycle	First	Second	
CGPA	1.89	2.46	
Grade	С	В	
Year	2014	2021	

Table 1: NAAC Accreditation details of the Institute

The College is due to enter its Third cycle of NAAC.

1.3.4 Recognitions

The College has upgraded in the teaching level – Under graduate to Post graduate in the section 2(f) and 12 (B) of the University Grants Council Act, 1956.

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2. Overview

2.1 Summarised Populace analysis for 2022-2023

2.1.1 Students data

The data (shared by the Institute) shows there were a total of **426 male and 431** female students.

2.1.2 Staff data

S. No.	Туре	Male	Female	Total
1	Admin staff	04	01	05
2	Teaching staff	22	03	25
3	Non-Teaching staff	14	02	16
Total 5	taff Members	40	06	46

Table 2: Staff data of the Institution for 2022-2023

The staff data shows the College premises had a total of 46 Staff Members.

2.2 Summarised Populace analysis for 2021-2022

2.2.1 Students data

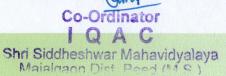
The data (shared by the Institute) shows there were a total of **419 male and 396** female students.

2.2.2 Staff data

S. No.	Туре	Male	Female	Total
1	Admin staff	04	01	05
2	Teaching staff	22	02	24
3	Non-Teaching staff	14	02	16
Total S	taff Members	40	05	45

Table 3: Staff data of the Institution for 2021-2022

The staff data shows the College premises had a total of 45 Staff Members.





2.2 Total College Area & College Building Spread Area

The total site area is 1.3 acres and the total Built-up area of the Institute is 46,016 sq. ft. for an approximately 903 footfalls.

2.3 Institute Infrastructure

2.3.1 Establishment

The Institute was established in 15 June 1996...

2.3.2 Spatial Organisation

There are provisions for staircase for accessibility on the premises, whereas there are amenities such as CCTV, a first aid room, etc. The Institute is located prettyclose to nature and hence has a very fresh environment which is absolutely pollution free and healthy. The Building is a Reinforced Cement Concrete (RCC) framework building.

2.4 Operation and Maintenance of the premises

The interview session was held with the staff regarding the operation and working hours. The Institution is open from Monday to Saturday for around 08:00 hours to 17:30 hours.

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3. Research

3.1 About the Green Building Study Audit

It is a systematic study of the aspects which make the Institution sustainable and healthy premises for its inhabitants.

3.2 Analysis of the Green Building Study Audit

The procedure included detailed verification as follows:

- Investigation
- Technical discussion with team
- Observations
- Inferences

3.3 Strategy adopted for Green Building Study Audit

The strategies included data collection from the admin department, actual inventory, investigation to check the operation and maintenance, analysis of the data collection, and preparation of the Report.

3.4 Activities undertaken for the Green Building Study Audit

- Discussion with the Institute
- Allotment and Initiation by the Institute
- Data collection
- Submission of the files



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4. Observations

Environment is an essential part for human survival. We co-exist with the environment and it cannot be termed as a separate entity. The Ecological audit helps to understand the flora, fauna that exists and steps that can be taken to improve the same.

To denote if there are problems related to sound in and around the surrounding. In terms of the carbon footprint it helps in keeping a tab on the eco-friendly habits incorporated by the inhabitants of the premises. Health today is the topmost priority, a general understanding of the initiatives undertaken along with sufficient hygiene practices adopted. Universal design is applicable to all built and unbuilt spaces.

4.1 Open Spaces

There is an open space in the premises used by students at present for sports and cultural gatherings. There are provisions for natural plantations which have enhanced the beauty of the space.

4.2 Flora audit

4.2.1 Flora audit

A flora survey was carried out to identify the total numbers of plants and trees. The landscape area has a variety of plantations constituting many trees in premises documented below.

S. No.	Plant name	Type	Nos.	Planted by
1	Terminalia catappa (Almond)	Tree	2	Staff
2	Ficus racemose (Fig)	Tree	2	Staff
3	Ficus religiosa (Peepal)	Tree	1	Staff
4	Azadirachta Indica (Neem)	Tree	1	Staff
5	Ficus Carica (Fig)	Tree	1	Staff
6	Annona squmosa (Custard apple)	Tree	2	Staff

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7	Alstonia Scholaris (Devil's Tree)	Tree	2	Staff
8	Cocos nucifera (Coconut)	Tree	1	Staff
9	Casuarina equisetifolia	Tree	1	Staff
10	Hyophorbe lagenicaulis (Bottle palm)	Tree	2	Staff
11	Tectona grandis (Sagwan)	Tree	2	Staff
12	Bambusa vulgaris (Bamboo)	Tree	8	Staff
13	Millettia pinnata (Karanji)	Tree	1	Staff
14	Aegle Marmelos (Bael)	Tree	1	Staff
15	Murraya Koenigii (Curry leaves)	Tree	2	Staff
16	Cascabela thevetia (yellow oleander)	Shrub	1	Students
17	Justicia adhatoda (Adulsa)	shrub	2	Students
18	Cycas circinalis (Cycas)	Shrub	1	Students
19	Nerium oleander (Oleander)	Shrub	2	Students
20	Neolamarckia cadamba	Tree	4	Hon Principal Prof. Suhasji Morale

Table 4: Details of the Flora in the premises

At present, there are 39 nos. plantations on the premises. The overall ambience of premises has lots of plants.

4.3 **Noise Audit**

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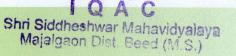
On a macro level the College is surrounded by huge farms and minimal residential blocks thus there is a peaceful and noise free arena observed inside the premises.

Carbon Footprint Audit 4.4

4.4.1 Eco-friendly Commuting Practices

The site is located in a semi-urban locality.

Overall, the carbon footprint is well under control owing to the above reasons.





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4.4.2 Heat Island Reduction

The team was present on site: the following observations and inferences were documented:

- There is sufficient nos. of plantations on site which provide not just cool ambience but also shaded areas as natural walkways.
- However, there is an urgent need to improve the site context and increase the nos. of plantations on ground and terraces (rooftop gardens).

4.4.3 Outdoor Light Pollution Study

The College compound lights are not upward looking thus, these do not cause light pollution.

4.5 Universally accessible premises

As per World Report on Disability, 2011 there are 180 million approx. Persons with Disabilities that makes it 15% of total population of India.

The following facilities are available on the premises for the specially-abled as part of universally accessible premises initiatives.

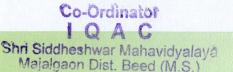
- Low height risers in the staircases
- Non-slippery floor surfaces

The design of the premises is highly appropriate for access with passages and corridors being wide enough in size and naturally ventilated.

4.6 Fire Safety

Fire and life safety are an important consideration of the National Building Code 2016. This aspect is touched upon as part of this study in the capacity of an Architect registered with the Council of Architecture. As part of the research, fire safety audit was considered from the 'Building systems' perspective.

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5. Inferences

5.1 Section-wise suggestions related to premises

The following suggestions are to be considered as a *first priority* for implementation. These **should be executed within the next 1.5 to 2.5 years from the date of the Report submission.** The Institute can execute a plan after discussion with Project Head.

5.1.1 Site beautification

- Bird house/ Feeders At appropriate locations there can be provisions for drinking water and some grains for birds as they visit the site much frequently.
- → Garden development The existing open space should be designed as an Architectural landscape.
 - Scientific name plates and QR codes The team should undertake a project to have name plates with QR codes on every plant of the premises.
 - <u>The landscape redesign and ecological redesign</u> This should be done to increase the shade cover in the entire premises.

5.1.2 Life safety

- Safety for scientific laboratory − These areas should have sand buckets, ventilators, fire extinguisher as per required grade, fire and life safety notice board.
- Combustible equipment Every space which has a gas cylinder or combustible equipment should have a provision for the barricade around the gas cylinders, appropriate safety board's mentioning 'danger sign' and 'Do not touch' with an additional small fire extinguisher close by.

5.1.3 Pollution Control

Avoid burning waste - The waste produced on the premises should not be burned as it is dangerous to the health of students and staff

⇒ Bicycles as a gift - As an appreciation gesture maybe the student's toppers/ staff best performers can be awarded a bicycle occasionally.

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The campus building in the premises







Investigative parameters – Ecological Management – Plantations, ramp and shaded parking stand







Investigative parameters – Water Management – Water usage and sources

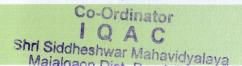


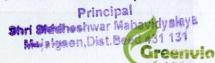




Investigative parameters – Waste Management – Under process compost pit, dustbins and clean premises

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6. References

The study is based on the data collected, analyzed, rechecked, and confirmed through multiple modes. For the quality study, some standards/ notes have been referred to. These are listed and noted below. However, no direct references have been used anywhere. These are used as a base to analyze and study the data collected.

- Uniform Plumbing Code India, 2008
- ⇒ IGBC Green Existing Buildings Operation & Maintenance (O&M) Rating system, Pilot version, Abridged Reference Guide, April 2013
- ⇒ IGBC Green Landscape Rating system, March 2013
- BOMA Canada Waste Auditing Guide, Best Environmental Standards, BOMA BEST –
 Canada
- Used only for understanding Universal design Universal accessibility Guidelines for Pedestrian, Non-motorizes vehicle and Public Transport Infrastructure - Report guidelines by Samarthyam (National centre for Accessible Environments) - an initiative supported by Shakti Sustainable Energy Foundation.

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