



SHRAMIK VIDYARTHI DNYANSEVA SANSTHA'S

**AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE**

( AFFILIATED TO UNIVERSITY OF MUMBAI )

DODAMARG, DIST. – SINDHUDURG 416 512 ( M. S.)

EMAIL – [dkscsci@gmail.com](mailto:dkscsci@gmail.com)

TEL. NO. – 02363 256755

ESTD. – 2012

COLLEGE CODE – 166

## Criteria 7

# Institutional Values and Best Practices

### Key Indicator – 7.1

### Institutional Values and Social Responsibilities

#### Metric No. 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 and sustainability activities



# GREEN AUDIT CERTIFICATE

This is to certify that Green Audit has been successfully completed by M/s. Saur Engineers & Consultants Pvt. Ltd. Empanelled Energy Auditor(CLASS-A) MEDA, Government of Maharashtra and an ISO 14001:2015 company and suggestions for improvements have been given. The Audit activity has been executed for beneficiary with following Details:-

**Amdar Deepakbhai Keshkar Science College, Dodamarg  
At, Post & Tal. Dodamarg, Dist. Sindhudurg, Maharashtra**

No. GA257E

Date of Audit: 05/12/2023

Assessment Period: 2022-2023 Valid till: 04/12/2024



ENERGY AUDITOR "CLASS-A" No. EA-28  
SAUR ENGINEERS & CONSULTANTS PVT. LTD.  
Plot No. 105, D-8, Ganshi-1, Borivali (W),  
Mumbai - 400 091.

**Saur Engineers & Consultants Pvt. Ltd.**

Registration No: EA-28 MEDA/ECN/2023-24/Class-A/EA 28

Empanelled Energy Auditor-CLASS A, MEDA, Government of Maharashtra

The report is generated from data, information, answer to asked questions, standards and procedures defined by different and concerned authorities time to time, available site condition, weather condition, operational and availability conditions provided by beneficiary on the day of survey. If any changes on above said measures on any other parameters affecting these measures may lead to change, alter, in-corrections even falsifying calculations, results, recommendations and suggestions. The values, figures, amounts mentioned are indicative to the site situation and condition; it may not reflect each and every aspect of it. The report is generated restricted to given scope and available conditions and measures.

# ENERGY AUDIT CERTIFICATE

This is to certify that Energy Audit has been successfully completed by M/s. Saur Engineers & Consultants Pvt. Ltd. Empanelled Energy Auditor(CLASS-A) MEDA, Government of Maharashtra and an ISO 14001:2015 company and suggestions for improvements have been given. The Audit activity has been executed for beneficiary with following Details:-

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At, Post & Tal. Dodamarg, Dist. Sindhudurg, Maharashtra**

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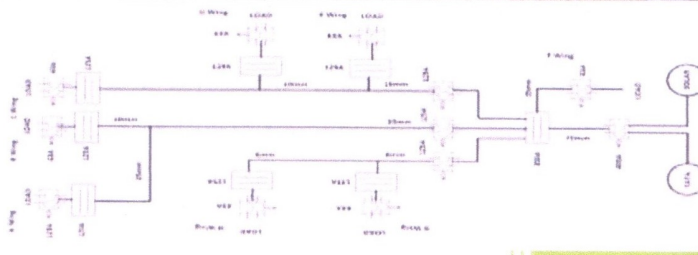
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- Liasoning
- Energy Audit
- Safety Audit
- Electrical Projects
- Solar Projects

AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE  
AT,POST TALUKA DODAMARG, DIST. SINDHUDURG



Report By


M/s. Saur Engineers &  
Consultants Pvt. Ltd.,  
Mumbai.

- Registered Energy Auditor
- Power Consultant
- Channel Partner-MNRE, Govt. of India.
- Channel Partner-MEDA, Govt. of Maharashtra.
- Solar Grid Engineers, NISE, Govt. of India
- Licensed Electrical Contractor,

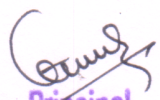
Greenary :



Our college is surrounded by vibrant greenery, including a variety of trees, shrubs. These green spaces not only enhance the campus's visual appeal but also improve air quality and provide peaceful areas for students and staff to relax and study. Our commitment to maintaining and expanding these green areas reflects our dedication to sustainability and a healthier, more inviting campus environment.

  
IQAC Coordinator,  
A.D.K. Science College  
Dodamarg.



  
Principal  
Amdar, Deepakbhai Kesarkar Science College  
Dodamarg, Tal. Dodamarg, Dist. Sindhudrug



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# Detailed Report

## Energy-Green-Environment Audit

### Project Beneficiary

### 2023-2024

Amdar Deepakbhai Kesarkar Science College

At, Post & Taluka Dodamarg,  
Dist. Sindhudurg, Maharashtra

### Consultants & Auditor

SAUR  
Engineers & Consultants  
Pvt. Ltd.

REGISTRATION NO. : EA-28

D-8, Plot No. 108, Akshay, Rsc-16,  
Gorai-1, Borivali (west), Mumbai-400092  
MAHARASHTRA  
+919867499812/+919168402909



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Load Management | Electrical Installation & Maintenance | Permissions, approvals, liasoning

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### Acknowledgement

Energy, Green and Environment Audits have been successfully completed by M/s. Saur Engineers & Consultants Pvt. Ltd. Empanelled Energy Auditor(CLASS-A) MEDA, Government of Maharashtra and an ISO 14001:2015 company.

This activity is jointly executed by auditor and beneficiary to account Environmental diversities and development opportunity without sacrificing it's purpose. The main object was to assess the existing system for Environment concerns, High quality, professional and sustainable Environment management, Adopt best practices and Standard operating procedures.

Beneficiary premise is a leading educational service utility in semi-urban area. The college is run as per the norms and standards and having awareness and approach towards Environment saving. The management and staff are keen on saving greenery and energy on every opportunity available.

We sincerely acknowledge efforts of Management and staff members for smooth execution of audit process. We sincerely acknowledge the leaders and guides of the activity who helped to design and supported to the execution of the process

Principal & Team Head	ASST. PROF. M.V. GOLASE
Team Member, Teaching	ASST. PROF. A.B.DHENG
Team Member, Teaching	ASST. PROF. S. V. MORE
Team Member, Non-Teaching	MR. A. A. DESAI
Team Member, Non-Teaching	MR. M.D. PATADE
Team Member, Student	MR. PRATIK GAWAS
Team Member, Student	MISS. NEVEDITA DESAI
Team Member, Student	MISS. SIMANTHINI NAIK
Team Member, Student	MR. DILIP DESAI

**and all other technical, teaching, non-technical staff and students of college.**







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### Certificate

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**Name of Beneficiary:** Amdar Deepakbhai Kesarkar College of Science

**Registration Number:** C45227

**Address:** At, Post and Taluka Dodamarg, Dist. Sindhudurg, Maharashtra

**Contact Person:** Mr. Amit Dhenge

**Contact Number:** 02363256755

**Date of Audit:** 05/12/2023

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Mumbai - 400 091.

Sign & Seal

Saur Engineers & Consultants Pvt. Ltd.

Registration No: EA-28

Empanelled Energy Auditor-CLASS A,

MEDA, Government of Maharashtra



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### 1. Introduction

#### 1.1. Energy Audit

Energy Audit is a Basic essential activity to be done for saving in electrical billing and also allied with any energy saving projects like renewable energy project and solar projects. Energy Audit is an assessment of usage, consumption and pattern of energy used in the premises based on all above parameters along with conditions and benchmarks as resource and Building Envelope Analysis, working, operational and Maintenance Procedure Analysis, Utility Data Analysis, Load Data Analysis, Analysis of Energy Consumption, Load Evaluation, consumption pattern and billing history, back-up systems and also the administrative requirements, assessment of safety concerns, assessment of operating and occupancy schedules for Equipment, Power Quality and Environmental Parameters Analysis, Efficiency and Wastage Analysis and assessment of potential risk factors.

Energy Audit is a process of systematic identification, quantification, recording, reporting and analysis of energy usage properties of institute. It aims to analyze within and surrounding the place concerned, which will see interrelation with eco-friendly atmosphere. Energy audit is a valuable means for an Institution related to educational area to determine how and where they are connected with Energy conservation drive of nation. Understanding these conditions the institution can make plans for day to day working, future expansions as well as an eco-friendly view of life while making changes and planning for savings. It provides better understanding of impact of energy consumption on working conditions to staff and visitors. As the Energy availability is becoming an increasingly important issue for the nation, the role of higher education institute is more vital and prevalent in relation with the issue.

The rapid urbanization and economic development at local, regional and global level has led to Energy availability and quality crisis. On this background it becomes essential to adopt the system of Energy efficient and safe Campus for the institution which leads for sustainable development and at the same time persisting the quality of the same while travelling on the growth path. Moreover, it is social responsibility of a High energy consuming institution to ensure that they contribute towards the saving of Energy and thus making it available who are destitute in term of energy availability.



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### 1.2. Green Audit

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of natural diversity properties of institute. It aims to analyse within and surrounding the place concerned, in purview of relationship with natural diversity around. Green audit is a valuable means for an Institution related to educational area to determine how and what natural resources or diversity of nature they are surrounded with or they are living with. Green Audit report includes assessment of premises which refers to nature friendly environment with lesser carbon emission in terms of initiatives, implementation, best practices, working environment, capacity utilization based on all above parameters observed during green audit along with conditions and benchmarks as Air Quality, Water Quality, Noise Data, Weather Data, Tree Diversity, Faunal Diversity as well as biodiversity conditions. Understanding these conditions the institution can make plans for day to day working, future expansions as well as a nature-friendly view of life while making changes and planning for savings.

It can create consciousness and awareness about natural diversities around and helps to standardize practices for working with observation of nature friendly work style. It provides better understanding of green diversity available surrounding conditions to staff and students. As the vanishing diversity of nature is becoming an increasingly important issue for the nation as well as the world, the role of higher education institute is more vital and prevalent in relation with the issue.

The rapid urbanization and economic development at local, regional and global level has led to several greenery and ecological crisis. On this background it becomes essential to adopt the system of Green Campus for the institution which leads for sustainable development and at the same time persisting the quality of the same while travelling on the growth path. The National Assessment & Accreditation Council, New Delhi (NAAC) has made it mandatory to all Higher educational institutions should submit a Green Audit Report. Moreover, it is social responsibility of a Higher educational institution to ensure that they contribute towards the saving of Green areas and maintaining good levels of qualities for natural resources available such as Air, water, atmosphere, flora, faunal, Etc.





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### 1.3. Environment Audit

Environmental Audit is a process of systematic identification, quantification, recording, reporting and analysis of impact on components of environmental diversity properties of institute. It aims to analyse within and surrounding the place concerned, which will see interrelation with eco-friendly atmosphere. Environmental audit is a valuable means for an Institution related to educational area to determine how and where they are impacting on natural resources or diversity of nature. Environmental audit report includes assessment of premises which refers to impact on environment with carbon emission, wastages in terms of initiatives, implementation, best practices, working environment, capacity utilization based on all above parameters observed during Environmental audit along with conditions and benchmarks as Wastage types, recycling, Greenery, effect of impact, Carbon footprints as well as biodiversity conditions. Understanding these conditions the institution can make plans for day to day working, future expansions as well as an environment-friendly view of life while making changes and planning for savings.

It can create health consciousness, environmental awareness, practice green values and ethics. It provides better understanding of impact on surrounding conditions to staff and students. If self-enquiry is natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is natural and necessary outgrowth of a quality educational institution. Thus it is imperative that the institution evaluates its own contributions towards a sustainable future. As the pollution and CO<sub>2</sub> is becoming an increasingly important issue for the nation, the role of higher education institute is more vital and prevalent in relation with the issue.

The rapid urbanization and economic development at local, regional and global level has led to several greenery and ecological crisis. On this background it becomes essential to adopt the system of Green Campus for the institution which leads for sustainable development and at the same time persisting the quality of the same while travelling on the growth path. The National Assessment & Accreditation Council, New Delhi (NAAC) has made it mandatory to all Higher educational institutions should submit a Environmental audit Report. Moreover, it is social responsibility of a Higher educational institution to ensure that they contribute towards the saving of environment and reduce level of quantity for impact on natural resources available.





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### 1.4. Objective

The Energy audit of an institution has becoming the paramount important for self-assessment of the Institution which reflects in the role of the institution in mitigation to current problem of reducing Energy availability and quality. The institution has been putting efforts to keep reducing and standardizing energy usage since its inception. Therefore the purpose of present Energy audit is to identification, quantification, recording, reporting and analysis of components of Energy utilization and electrical safety properties of institute framework of energy conservation in compliance with the applicable regulations, policies and standards. The main objectives to carrying out the energy audit are:-

- To have overview of premises
- To record and document Utility data
- To record and document Load profile data
- To record and document basic Electrical Safety observations data
- To record and document Energy Conservations (if any)

The green audit of an institution has becoming the paramount important for self-assessment of the Institution which reflects in the role of the institution in mitigation to current problem of reducing greenery and natural resources depletion. The institution has been putting efforts to keep clean and green atmosphere since its inception. Therefore the purpose of present green audit is to identification, quantification, recording, reporting and analysis of components of natural diversity properties of institute framework of Green atmosphere sustainability. The main objectives to carrying out the green audit are:-

- To record and document Air quality data
- To record and document Water quality data
- To record and document Weather/Meteorology data
- To record and document Noise Level data
- To record and document Tree Diversity data
- To record and document Faunal diversity data

The Environmental audit of an institution has becoming the paramount important for self-assessment of the Institution which reflects in the role of the institution in mitigation to current problem of reducing greenery and natural resources depletion. The institution has been putting efforts to keep clean and green atmosphere since its inception. Therefore the purpose of present Environmental audit is to identification, quantification, recording, reporting and analysis of components of surrounding environmental properties of institute framework as a part of global environment sustainability. The main objectives to carrying out the Environmental audit are:-

- To record and document Wastage type and management
- To record and document Recycling Procedures
- To record and document Impact on environment
- To record and document Carbon footprints

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### 1.5. Methodology

The purpose of Energy Audit of is to ensure that the practices followed in the campus are in accordance with the Energy Conservation Policy of the Country. The methodology includes: collection of data, physical inspection of the campus, observation and review of the documentation and data analysis.

The report is based on the documents obtained while on site, visual inspection and data collection carried out during the assessment period. All the measurements recorded on site are indicative loads and duties. All readings are collected for analysis and improvement planning. Cost estimates are indicative only as more detailed design and acceptance of suggestions will be required to improve the accuracy of these estimates.

The units are selected from SI (international standards) with meters, Celsius degrees, Etc.

### 1.6. Audit Statement

The building is adopting the "Energy Efficient Campus" system for Energy conservation and sustainability. There are main three pillars i.e. Energy saving by technology and Operation & Maintenance procedures, safe working on occupational health and performance and 100% inmates demonstrating energy efficiency literacy. The goal is to maintain safe working environment, reduce energy consumption, while creating an atmosphere where inmates can work and live healthy.





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### 2. OVERVIEW

#### 2.1. LOCATION

SL No	Head	Details	Remark
1	Name of Institute	AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEEG DODAMARG	
2	Category	Educational Institute	
3	Address	AT/POST-DODAMARG, TAL.-DODAMARG, DIST.-SINDHUDURG	
4	State	MAHARASHTRA	
5	Nearest Railway Station	THIVIM	Outstation
			Local
6	Nearest Bus Station	DODAMARG	Interstate
		DODAMARG	Intrastate
7	Nearest Airport	MOPA	
8	Longitude	73.966978	
9	Latitude	15.68191	



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### 2.2. Synopsis

SL No	Head	Details
1	Name of Applicant Institution	AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEEG DODAMARG
3	Address	AT/POST- DODAMARG, TAL- DODAMARG, DIST.- SINDHUDURG.
4	Contact Number	2363256755
5	Registration Certificate Number	C45227
6	Sector Type	EDUCATION
7	Senior Management Contact	NA
8	Contact Number	2363256755
9	Status of Institution (Pvt./Public)	PVT
10	Company Turnover (Rs. In Lakhs)	NA
11	Number of Employees	24
12	Approximate Floor Area (ft2)	9801
13	Year of Establishment	2012
14	Plot Area (ft2)	9801
15	Constructed Area (ft2)	11250
16	Greenery Area (ft2)	NA
17	Roof Area (ft2)	3750
18	No of Buildings	2
19	Building Type	RCC
20	Age of Building	12
21	Leakages/Cracks on wall/roof	NO
22	No. of workers (Footfall)	24
23	No. of Customers (Footfall)	118
24	Day Vs Night activity in %	33.33
25	Shifts per day	1
26	Hours per shift	8
27	DG Set installed	DG
28	Inverter Installed	YES
29	Renewable Energy System installed	NO
30	(Solar/Wind/Biomass/Biofuel/Etc.)	NO



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### **2.3. Layouts**

#### **Sitemap**

– NA

#### **Floor Map**

– NA

#### **Google Map**

– NA





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### 2.4. About Premises



Government of Maharashtra has been included newly formed Dodamarg taluka in the hilly region development programs because nearly 53 villages of the taluka are completely in the hilly and remote areas of western ghat, bordering the states of Maharashtra, Goa and Karnataka. Mainly agriculture and agriculture-based employment is the main means of livelihood. Due to inconvenience of public transport, sparse population in villages etc., this taluka became somewhat backward educationally and economically.

To promote the education in the society where the education is very important for the holistic development of society. Shramik Vidyarthi Dnyanaseva Sanstha was established on 26th January 2003 with the motto of 'Dnyan Vidnyan Susanskar'. If the flow of education should reach the doorsteps of children in such underdeveloped areas, if the village student wants to be empowered in this era of globalization, if he wants to make a substantial contribution to the society, there is no such viable alternative to science. Therefore, from the point of view of 'Science to all Strata of the Society', Amdar Deepakbhai Kesarkar Science College Dodamarg was approved by the government on 19th June 2012 and affiliated to Mumbai University on July 2012.

Earlier, students of the Dodamarg had to travel up to 65 kilometers to get a science degree, now the problem has been removed. The college has so far provided education to deprived class students at very low cost. Economically self-reliant, society and environment conscious citizens have been created. It would not be an exaggeration to say that by 2024-25, more than 300 students have graduated from college, thereby stabilizing that many families. The percentage of girls among graduate students has always been high. The graph of the number of students admitted to colleges has always been climbing and result percentage has always been excellent. On 26th May 2022 Maharashtra Government approved hundred percent grant to the college and there is no doubt that this approval will be a revival for the college and we are sure that in the future this college will become well-known and this stream of education will be widened.





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### 2.5 Documentation:

ITEM	YES/NO
<b>a. Existing Statutory Layouts</b>	
i. Plot Map / Sketch	NO
ii. Building / Floor Map (For Each Floor)	NO
iii. Roof Terrace Map	NO
iv. Electrical SLD	NO
v. Details Electrical Control Panels	NA
vi. Details of Transformer installed if any	NA
vii. Details of Generator (DG-Set) installed if any	NA
viii. Details of UPS installed if any	NO
ix. Details of Renewable systems installed if any	NA
x. Utility Bills (Electricity, Gas, Water, Diesel, Etc.) for 12 months	YES
xi. Registers of Records	NO
xii. Time Tables	YES
xiii. Nameplate Data	NO
xiv. Manuals	NO
b. Existing safety measures (Fire extinguishers, Safety training and posters)	NO
c. Verification of circulars, Records of Preventive measurements	NO
d. Verification of Behavioural SOP	NO
e. Verification of O & M SOP	NO
f. Checking Provision for electric shock response and treatment	NO
g. Checking Log of Electrical works/accidents	NO
h. Checking Provision of Danger Sign Boards	NO
i. Checking Workmen involved in electric work	NO
j. Checking Provision and Height of work	NO
k. Checking availability of First Aid	YES





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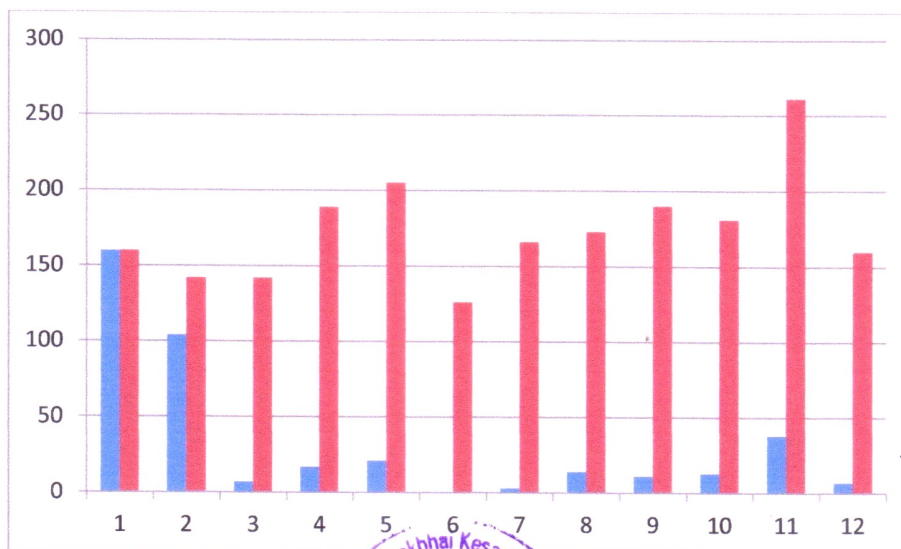
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### 3. Energy Audit

#### 3.1. Electricity and Fuel Consumption Analysis

SL No.	Particulars	Unit	VALUES	VALUES
1	Supply Type	LT/HT	52/LT II	52/LT II
2	Utility Company	DISCOM	MSEDCL	MSEDCL
3	Consumer Number	NO	236770007732	236770047491
4	Meter Number	NO	07515598489	09801242521
5	Feeder	SOURCE	NA	11KV
6	Tariff	TYPE	52/LTII COMM 1Ph<20kw	52/LTII COMM 1Ph<20kw
7	Sanctioned Load	KW	0.20	1.80
8	Connected Load	KW	0	10
9	Contract Demand	KVA	0	8
10	RMD (Year)	KVA	0	0

Month	Consumption	Expenses	Consumption	Expenses
(NAME)	(KVAH)	(Rs)	(KVAH)	(Rs)
Jan-23	160	2512.0	160	2512.0
Feb-23	104	1797.3	142	2282.3
Mar-23	7	559.3	142	2282.3
Apr-23	17	687.0	189	2882.1
May-23	21	738.0	205	3086.3
Jun-23	0	470.0	126	2078.1
Jul-23	3	508.3	166	2588.6
Aug-23	14	648.7	173	2677.9
Sep-23	11	610.4	190	2894.9
Oct-23	13	635.9	181	2780.0
Nov-23	38	955.0	261	3801.0
Dec-22	7	559.3	160	2512.0



Energy, Electrical & safety Audits | Solar and Electric Consultation | Power Management by IOT  
 Solar Rooftop EPC | New Electric Connections, Meters (New, Shifting, additional)  
 Load Management | Electrical Installation & Maintenance | Permissions, approvals, liasoning  
 Plot No. 108 / D - 8, Ashay Co-op. Society, Gorai- 1, Borivali (W), Mumbai-40092.  
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Other Energy Sources					
SL No	Energy/Fuel	Applicable	Unit	Use per Annum	Cost Per Annum (Rs)
1	Coal		NA		
3	Lignite		NA		
4	Fuel wood & Biomass		NA		
5	High Speed Diesel		NA		
6	Light Diesel		NA		
7	LSHS		NA		
8	LPG		NA		
9	Natural Gas	<ul style="list-style-type: none"> <li>• PNG</li> <li>• LNG</li> <li>• CNG</li> </ul>	NA		
10	Renewable Power		NA		
11	Captive (DG Set)		NA		

### 3.2. Consumption pattern

Meter-1				Meter-2			
HEAD	Usage (Kwh)	Payment (Rs)	Duration	HEAD	Usage (Kwh)	Payment (Rs)	Duration
<b>Total</b>	395	10681.19	Annual	<b>Total</b>	2095	32377.4	Annual
<b>Min</b>	0	470	June	<b>Min</b>	126	2078	June
<b>Max</b>	160	2512	Jan	<b>Max</b>	261	3801	Nov
<b>Average</b>	33	891	Annual	<b>Average</b>	175	2698	Annual

**Note:** All Bills are not preserved by college; assessment is done on the basis of provided Data. Also Bills are not paid on time.





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### 3.3. Future Expenses Projection on Electricity Bills for Next 20 Years

It is observed past 15 years that electricity rates are increasing with an average growth of 5% per annum. Following table will show how much amount we are going to spend on electricity next twenty years with this growth rate and same consumption.

SL No	Year	Unit Rate	Expenses
1	2023-2024	12.75	31747.5
2	2024-2025	13.39	33334.88
3	2025-2026	14.06	35001.62
4	2026-2027	14.76	36751.7
5	2027-2028	15.50	38589.28
6	2028-2029	16.27	40518.75
7	2029-2030	17.09	42544.69
8	2030-2031	17.94	44671.92
9	2031-2032	18.84	46905.52
10	2032-2033	19.78	49250.79
11	2033-2034	20.77	51713.33
12	2034-2035	21.81	54299
13	2035-2036	22.90	57013.95
14	2036-2037	24.04	59864.65
15	2037-2038	25.24	62857.88
16	2038-2039	26.51	66000.77
17	2039-2040	27.83	69300.81
18	2040-2041	29.22	72765.85
19	2041-2042	30.68	76404.14
20	2042-2043	32.22	80224.35

You are going to spend **Rs. 10,00,000/- (Rs. Ten Lakhs Only)** on electricity bills in coming 20 years; if we keep current consumption as it is.



Energy, Electrical & safety Audits | Solar and Electric Consultation | Power Management by IOT  
Solar Rooftop EPC | New Electric Connections | Meters (New, Shifting, additional)  
Load Management | Electrical Installation & Maintenance | Permissions, approvals, liasoning

Plot No. 108 / D - 8, Akshay Co. op. Society, Gorai- 1, Borivali (W), Mumbai-400092.

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### 3.4. Load Profile

SL No	Floor	Room	Normal Tubes	LED Tubes	Fans	ACs	PC	Printer	Other
1	Ground floor (office)	1	0	0	3	0	3	2	BULB-7
2	Ground floor (principal Cabin)	2	0	4	2	0	1	0	Bulb-5
3	Ground Floor (ladies Room)	3	0	0	1	0	0	0	Bulb-5
4	Ground Floor (Physics Lab)	4	0	0	2	0	0	0	Bulb - 6 Equipment-64
5	Ground Floor (Class room)	5	0	0	1	0	0	0	Bulb- 2
6	Ground Floor (Class room)	6	0	0	1	0	0	0	Bulb- 2
7	Ground Floor (Chemistry Lab)	7	0	1	1	0	0	0	Bulb 2
8	Ground Floor (Class room)	8	1	0	1	0	0	0	Bulb 1
9	Ground Floor (Class room)	9	0	0	2	0	0	0	Bulb 2
10	Ground Floor (Chemistry Lab)	10	0	0	1	0	1	0	Bulb 4 Equipment-87
11	Ground Floor (Toilet Gents)		0	0	0	0	0	0	Bulb 1
12	Ground Floor (Toilet Ladies)		0	0	0	0	0	0	Bulb 1
First Floor									
13	Boys Room	F1	0	0	1	0	0	0	Bulb 4
14	Library	F2	0	0	2	0	1	1	Bulb 5
15	Zoology Lab	F3	0	0	2	0	1	0	Bulb 5 Freez -1 Equipment 1
16	Botany Lab	F4	0	0	2	0	0	0	Bulb 5 Equipment 1
17	Sports + DLLE	F5	0	0	1	0	0	0	Bulb 6
18	IQAC + EXAM	F6	0	0	1	0	2	1	Bulb 6
19	Staff Room	F7	0	0	1	0	0	0	Bulb 8
SECOND FLOOR									
19	Confarance Hall	S1	0	0	10	0	0	0	Bulb4
20	Cultural + Yoga Hall	S2	0	0	12	0	0	0	Bulb6

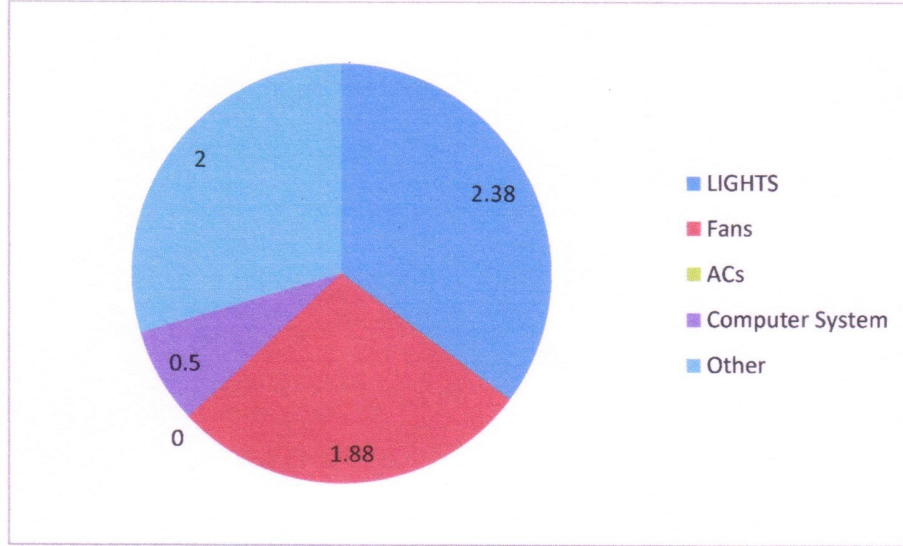




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LOAD PROFILE (KW)						
LOAD	LIGHTS	Fans	ACs	Computer System	Other	TOTAL
VALUES	2.38	1.88	0	0.5	2	6.76



### 3.5. Losses

#### 3.5.1. Demand

No Demand Recording observed

#### 3.5.2. Conservation

1. Replacing regular Fans with BLDC Fans. 0.94Kw and 7.9Kwh per day saving can be possible.







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### 4. GREEN AUDIT

#### 4.1. Floral Diversity

Year	No. of Trees
BEFORE 2022-2023	10
2022-2023	52
<b>Total</b>	<b>62</b>

Sl. No.	Common Name	Botanical Name	Quantity
<b>POETED PLANT (कुडीतील झाडे)</b>			
1.	ब्रम्ह कमळ	<i>Epiphyllum Oxypetalum</i>	1
2.	मोगरा	<i>Jasminum sambac</i>	4
3.	लाल जास्वंद	<i>Hibiscus rosa-sinensis</i>	1
4.	आईसक्रीम वेल	<i>Antigonon leptopus</i>	1
5.	हिरवा चाफा	<i>Artabotrys hexapetalus</i>	1
6.	बहावा	<i>Cassia fistula</i>	1
7.	रातराणी	<i>Cestrum nocturnum</i>	1
8.	सफेद मोठी लिली	<i>Crinum moorei</i>	1
9.	रतन अबोली	<i>Crossandra Infundibuliformis</i>	1
10.	निळी जास्वंद	<i>Epiphyllum Oxypetalum</i>	1
11.	बट मोगरा	<i>Jasminum sambac</i>	2
12.	भुई चाफा	<i>Kaempferia rotunda</i>	1
13.	ताम्हण	<i>Lagerstroemia speciosa</i>	1
14.	प्राजक्त	<i>Nyctanthes arbor-tristis</i>	1
15.	सर्पगंधा	<i>Rauwolfia serpentina</i>	1
16.	सीता अशोक	<i>Saraca asoca</i>	1
17.	पळस	<i>Butea monosperma</i>	1
18.	गुंज लाल	<i>Abrus precatorius</i>	1
19.	शिकेकाई	<i>Acacia concinna</i>	1
20.	वेखंड	<i>Acorus calamus</i>	1
21.	बेल	<i>Aegle marmelos</i>	1
22.	गुग्गुळ धूप	<i>Ailanthus triphysa</i>	1
23.	मसाला वेलची	<i>Amomum subulatum</i>	1
24.	शतावरी	<i>Asparagus racemosus</i>	1
25.	कडुलिंब	<i>Azadirachta indica</i>	1
26.	पुनर्नवा	<i>Boerhavia diffusa</i>	1
27.	पळस	<i>Butea monosperma</i>	1
28.	इन्सुलिन	<i>Chamaecostus cuspidatus</i>	1
29.	वाळा	<i>Chrysopogon zizanioides</i>	1





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30.	हाड्जोडी	<i>Cissus quadrangularis</i>	1
31.	लिंबू	<i>Citrus limon</i>	1
32.	आंबे हळद	<i>Curcuma Amada</i>	5
33.	हळद	<i>Curcuma longa</i>	1
34.	गवती चहा	<i>Cymbopogon citratus</i>	1
35.	कोकम	<i>Garcinia indica</i>	1
36.	मेंदी	<i>Lawsonia inermis</i>	1
37.	नोनी	<i>Morinda citrifolia</i>	1
38.	कढीपत्ता	<i>Murraya koenigii</i>	1
39.	सब्जा	<i>Ocimum basilicum</i>	1
40.	कृष्ण तुळस	<i>Ocimum tenuiflorum</i>	1
41.	आवळा	<i>Phyllanthus emblica</i>	1
42.	काळी मिरी	<i>Piper nigrum</i>	1
43.	शमी	<i>Prosopis spicigera</i>	1
44.	रक्त चंदन	<i>Pterocarpus santalinus</i>	1
45.	सर्पगंधा	<i>Rauwolfia serpentina</i>	1
46.	संताप	<i>Ruta graveolens</i>	1
47.	सप्तरंगी	<i>Salacia chinensis</i>	1
48.	चंदन	<i>Santalum album</i>	1
49.	रिठा	<i>Sapindus trifoliatus</i>	1
50.	पाडळ	<i>Stereospermum colais</i>	1
51.	लवंग	<i>Syzygium aromaticum</i>	1
52.	बेहडा	<i>Terminalia bellirica</i>	1
53.	हरडा	<i>Terminalia chebula</i>	1
54.	ओवा	<i>Trachyspermum ammi</i>	1
55.	पांढरा धूप	<i>Vateria indica</i>	1
56.	अश्वगंधा	<i>Withania somnifera</i>	1
57.	तिरफळ	<i>Zanthoxylum rhetsa</i>	1
58.	निवडुंग	<i>Opuntia dellenil</i>	2
59.	नेचे	<i>Nephrolepis Exattata</i>	1
<b>GROUND PLANTED</b>			
1.	बट मोगरा	<i>Jasminum sambac</i>	2
2.	मधुमालती	<i>Combretum indicum</i>	1
3.	लाल अबोली	<i>Pachystachys spicata</i>	1
4.	हळद	<i>Curcuma longa</i>	1
5.	गवती चहा	<i>Cymbopogon citratus</i>	1
6.	कढीपत्ता	<i>Murraya koenigii</i>	1
7.	कृष्ण तुळस	<i>Ocimum tenuiflorum</i>	4





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8.	मोगरा	<i>Jasminum sambac</i>	4
10.	कोरफड	<i>Aloe Barbedensis</i>	4
11.	निवडुंग	<i>Opuntia dellenil</i>	2

### SUMMARY

Sr. No.	Area	Total Trees
	<b>Total</b>	<b>62</b>

### 4.2. Faunal Diversity

Sr. No.	Scientific Name	Common Name	Family	Category
1.	Lepidoptera	Butterfly	Insect	Insect
2.	Bucerotidae	Hornbill	Bucerotidae	Bird
3.	Corvus splendens	Crow	Corvidae	Bird
4.	Ardea	Heron	Ardeidae	Bird
5.	Lacertilia	Lizard	Agamidae	Reptile
6.	Scorpiones	Scorpion	Arachnid	Animalia
7.	Libellula depressa	Dragonfly	Libellulidae	Insect
8.	Coccinella septempunctata	Ladybird beetle	Insect	Insect
9.	Coccinellidae	Ground beetle	Insect	Insect
10.	Passer domesticus	House Sparrow	Passeridae	Bird
11.	Acridotheres tristis	Common Myna	Sturnidae	Bird
12.	Copsychus fulicatus	Indian Robin	Muscicapidae	Bird





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### 4.3. Green Approach

Sr. No.	ACTIVITY	YES/NO	REMARK
1.	E-waste collection box:	YES	E-waste is collected in separate designated box which is planned to dispose through qualified designated agency in later stages.
2.	Dry-waste collection box:	YES	Institute has separate Dry waste Management system. Dry waste is collected in separate designated box which is disposed through local body waste management system.
3.	Wet-waste collection box:	NO	Wet waste is directly put in composting.
4.	Paper-waste collection box:	YES	Paper waste is collected in separate designated box which is planned to dispose through qualified designated agency.
5.	Cleaning:	YES	Institute runs good cleaning practice.
6.	Composting:	YES	Institute composts partial of their wet waste.
7.	Safe and waste free environment drive:	YES	Institute runs Safe and waste free environment drive within as well as outside campus.
8.	Sewage treatment	NO	
9.	Waste management	NO	
10.	Swachh Bharat campaign	YES	Institute runs Swachh Bharat campaign actively.
11.	Water resources	YES	Institute have sufficient water resources from owned Well and local body supply.
12.	Rain water harvesting:	YES	Institute collect Rain water in Tank and use it during rainy season.
13.	Waste water treatment:	NO	
14.	RO water treatment	NO	
15.	Greenery:	YES	Institute has maintained Greenery within campus
16.	Plantation: (trees and plants in campus)	YES	Institute do Plantation in campus during monsoon.
17.	Plantation drive by the institute: (trees and plants outside campus)	NO	
18.	LED lights:	YES	Institute Uses LED lights many of the points for illumination requirements
19.	Energy & environment monitoring systems	NO	





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20.	Save energy posters	YES	Institute has put Save energy posters in visible areas.
21.	Energy management	NO	
22.	Renewables (solar/wind)	YES	Institute has installed SPV Street Lights
23.	Sensor based equipment	NO	
24.	Switch off posters	YES	Institute has put Switch OFF posters in visible areas.
25.	Emergency contact numbers list:	YES	Institute has put Emergency contact numbers list in visible areas.
26.	Health/medical facilities	NO	
27.	Critical safety parameters:	NO	
28.	Disaster management training	YES	Institute has people with Disaster management training.
29.	Awareness, approach, Seminars	YES	Institute conduct/participate in seminars, lectures, symposiums for good environment awareness and approach.
30.	Code of conducts, SOPs	NO	





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### 5. ENVIRONMENT AUDIT

#### 5.1. Air Quality

POLLUTANTS	PM 2.5	PM 10	O3	CO	NO2	SO2
LIMIT	35	150	21	35	10	6
UNIT	µgm/m <sup>3</sup>	µgm/m <sup>3</sup>	µgm/m <sup>3</sup>	µgm/m <sup>3</sup>	µgm/m <sup>3</sup>	µgm/m <sup>3</sup>
VALUE	12	18	7	1	9	1
REMARK	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD

#### 5.2. Water Quality

##### 5.2.1. Water Quality

Sr. No.	Category	Location	Quality			Usage
			TDS	PH	ORP	
1.	Municipal / Local Body Water Supply	NA	NA	NA	NA	NA
2.	Bore well	CAMPUS.	400	6.8	350	ALL PURPOSE
3.	Open Well	NA	NA	NA	NA	NA
4.	Any other source	NA	NA	NA	NA	NA

##### 5.2.2. Filtration

1. Cotton based filter for rain water
2. Old traditional filter for drinking water

##### 5.2.3. Water Balance

SL NO	HEAD	UNIT	QUANTITY
1	AVERAGE DAILY OCCUPANTS	NO	120
2	AVERAGE DAILY VISITORS	NO	08
3	WATER REQUIREMENT FOR OCCUPANTS	LPD	1800
4	WATER REQUIREMENT FOR VISITORS	LPD	80
5	TOTAL WATER REQUIREMENT	LPA	451000
6	INHOUSE WATER SOURCE	LPD	2000
7	OUTSOURCED WATER	LPD	0
8	HARVESTED RAIN WATER	LPA	20000
9	SURPLUS/SHORTFALL WATER	LPA	40000

#### Note:

As per data provided by college





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### 5.3. Atmosphere

Sr. No.	BUILDING	LOCATION	Illumination		Temperature		Humidity		Noise level	
			LUX	OK	°C	OK	%	OK	db	OK
1	GROUND FLOOR	INDOOR	140	OK	27	OK	50	OK	36	OK
2	GROUND FLOOR	OUTDOOR	155	OK	27	OK	50	OK	36	OK
3	FIRST FLOOR	INDOOR	125	OK	28	OK	55	OK	32	OK
4	FIRST FLOOR	OUTDOOR	172	OK	28	OK	55	OK	32	OK
5	SECOND FLOOR	INDOOR	140	OK	29	OK	52	OK	30	OK
6	SECOND FLOOR	OUTDOOR	160	OK	29	OK	52	OK	30	OK

### 5.4. Wastage Management

- Do the premises generate wastage?  
YES-Minor
- What type of wastage and quantity is generated? What are actions taken on it?

Sr. No.	Wastage Type	Quantity	Action
1.	Biomass	NA	NA
2.	Paper	Non- Quantified	RECYCLE Through Third Party
3.	Water	Non- Quantified	Recycle Plant Within the Campus
4.	E-Waste	Non- Quantified	Planning To provide For Recycle
5.	Bio-Hazardous	Non- Quantified	Liquid waste diluted by chemistry dept.
6.	Fuel	NA	NA
7.	Production	NA	NA
8.	Process	NA	NA
9.	Food	NA	NA
10.	Man-Hours	NA	NA

### 3. Recycling Procedures

- Does Premises users aware about Recycle or Re-use of resources used?  
YES (Paper and E-waste)
- Does institute run wastage and recycling awareness campaign for users?  
YES Periodical seminars
- Does institute have SOP for wastage and recycling procedures?  
NO
- Does Premises Recycle or Re-use resources used?  
YES Composting

### 4. Wastage Recovery & Conservation

- Any Energy conservation method applied?  
YES LED LIGHTS
- Any SOP on operation and maintenance is defined?  
NO
- Any Energy conservation devices installed?  
NO
- Any alternative Energy source is installed?  
YES SPV Street Lights

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saurengineers@gmail.com 9168402909/9867499812/9821106453





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- e. Does the SWITCH OFF Drills conducted regularly?  
YES
- f. Are electronic and smart devices run on power saving mode? (computers, Etc)  
YES
- g. Does electronic & other equipment run standby mode? How many hours?  
NO, Unnecessary energy / power consumption is prohibited.
- h. Does institute perform Water quality monitoring?  
YES
- i. Have you installed rain water harvesting system?  
YES
- j. Any SOP on operation and maintenance of plumbing system is defined?  
NO
- k. Any SOP on Water utilization is defined?  
NO
- l. Does institute record water usage?  
NO
- m. Are rooms well ventilated?  
YES
- n. Does institute perform Air quality monitoring?  
NO
- o. Any vehicles used? Type of Fuel? Quantity of fuel consumed?  
NO
- p. Any third-party agreements for
  - i. E-waste Pick-up agreements  
NO
  - ii. Paper waste Pick-up agreements  
NO
  - iii. Bio hazardous waste Pick-up agreements.  
NA
  - iv. Chemical Pick-up agreements  
Dilution within campus







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### 5.5. Carbon Footprint

#### 5.5.1. Emission

Electricity Consumption	2490	KWh
Diesel Consumption	0	Ltrs
Other Energy Consumption	0	Unit
<b>Impact</b>		
Co2 Generated	1608	Kg
Water Equivalent	5272	LTR

#### 5.5.2. Sequestration

##### 5.5.2.1. CO2

Sl No	Method	Quantity	Saving
1	Trees	10	219.6
2	Recycling Papers	0	0
<b>TOTAL</b>			<b>219.6</b>

##### 5.5.2.2. WATER

Rain Water Harvested about 60000 Litters

#### 5.5.3. Observations

Carbon Footprint of Institute is 10.72 per person

Carbon Sequestration of Institute is 1.46 per person

#### 5.5.4. Recommendations

Carbon Sequestration is observed Very Less than sufficient.

Increase Green Measures.



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### 6. Recommendations

#### PART A GENERAL

1. It is recommended that institute shall prepare and maintain Plot map
2. It is recommended that institute shall prepare and maintain Building and floor map
3. It is recommended that institute shall prepare and maintain Roof/Terrace map
4. It is recommended that institute shall prepare and maintain Emergency evacuation Plan has to be prepared, preserved and made aware to occupants According to Point 1 to 3.
5. It is recommended that institute shall prepare and maintain Electrical SLD.
6. It is recommended that institute shall prepare and maintain Details Electrical Control Panels.
7. It is recommended that institute shall prepare and maintain Registers of Records
8. It is recommended that institute shall prepare and maintain Nameplate Data of all equipment
9. It is recommended that institute shall prepare and maintain Manuals of all equipment
10. It is recommended that institute shall preserve Electricity, Water and other utility bills.
11. It is recommended that institute shall prepare and maintain Log of Electrical works/accidents
12. It is recommended that institute shall provide safety equipments like Gloves, Shoes, Etc. for the workers.
13. It is recommended that Emergency evacuation plan to be prepared and displayed at centre place.
14. It is recommended that institute to assign anybody responsible to maintain data regarding audits, management and recommendations since It is found that institute is lagging in data keeping.
15. It is recommended that institute shall undergo Energy and Green Audit Every two years.





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### PART B ENERGY AUDIT

1. It is recommended that to prepare feasibility and plan to replace regular fans with BLDC fans.
2. It is recommended that to undergo detail energy audit considering following points
  - a. All the connected loads in each room has to be listed down
  - b. All rooms working time has to be noted down.
  - c. Any extra activity such as program/function/gathering, Etc. has to be recorded in terms of connected load, extra load, running time.
  - d. Extra consumption in particular month and reason for the same.
  - e. Manual and remote monitoring of consumption.
3. It is recommended that to Clean Luminaries, Fans, ACs regularly to increase efficiency.
4. It is recommended that Prepare and observe SOPs for maintenance of equipments.
5. It is recommended that Following tests are to be conducted at-least annually
  - Neutral Current
  - Load Unbalance
  - Earth Resistance
  - Insulation Resistance
  - Illumination
  - Power Quality
  - Thermography





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### PART C GREEN AUDIT

1. It is recommended that institute shall use environment friendly cleaning agents to clean the premises.
2. It is recommended that Institute may implement biogas plant from sewage waste.
3. It is recommended that Institute practices waste management but efforts are scattered, institute shall implement Target oriented waste management system.
4. It is recommended that Institute to install Energy & environment monitoring systems
5. It is recommended that institute shall implement Target oriented Energy management system.
6. It is recommended that institute shall implement Sensor based lights in passage.
7. It is recommended that institute shall have available Medical officer or to be empanelled nearby physician for emergency support.
8. It is recommended that institute shall undertake electrical safety Audit.
9. It is recommended that institute shall designate people and they shall undergo Disaster Management Training.
10. It is recommended that Avoid Draft printing, use email/Whatsapp maximum.
11. It is recommended that institute shall prepare observe and undergo Code of conducts and Standard Operating Procedures for Energy, Green and Environment management system.
12. It is recommended that institute shall arrange Exhibitions and identification programs for students and locals to understand medicinal plants.
13. It is recommended that institute shall start a planting drive with students outside campus.
14. It is recommended that institute shall gift small plants or seeds/seed-balls to students leaving or going to native place and encourage them to plant at their own premises.
15. It is recommended that institute shall connect Rain water harvesting system to recharge bore-well groundwater. Current system is inefficient; it has maximum capacity of 1KL which is overflow during heavy rains and empty during other period.



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### PART D ENVIRONMENT AUDIT

- i. It is recommended that institute shall plant and Maintain at-least 1 Full grown trees per two people or 65 Trees.
- ii. It is recommended that institute shall consider the scope to increase in Tree diversity; Plants like Tulsi, Camphora, Etc. can be planted for getting more pollution-free atmosphere. Also to increase the quality more greenery can be implemented. This can be done through gardening in empty places, terrace gardening and Green walls.
- iii. It is recommended that institute shall observe Quality from Filter output. To maintain the quality, water testing has to be done in every season (after every four months). A standard operating process has to be defined, documented and observed for tank and pipeline cleaning and maintenance.
- iv. It is recommended that institute shall quantify the output of Rain Water Harvesting System and increase the capacity to mitigate shortfall.
- v. It is recommended that institute shall Install Meters to measure actual demand and usage of water.
- vi. It is recommended that institute shall install RO based water filter/purifiers.
- vii. It is recommended that institute shall maintain accurate level, windows to be cleaned regularly, obstacles on windows to be moved, Proper capacity and efficiency of luminaries to be used and luminaries also to be cleaned once in a week.
- viii. It is recommended that institute shall make a MOU with E-waste recycling institute to recycle E-waste.
- ix. It is recommended that institute shall make a MOU with Paper waste recycling institute to recycle Paper waste.
- x. It is recommended that institute shall measure and record wastage Data for all types of wastage generated.
- xi. It is recommended that institute shall Prepare, maintain and follow SOP for wastage and recycling.
- xii. It is recommended that institute shall Prepare, maintain and follow SOP for all types of maintenance.





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### 7. Disclaimer

The report is generated from data, information, answer to asked questions, standards and procedures defined by different and concerned authorities time to time, available site condition, weather condition, operational and availability conditions provided by beneficiary on the day of survey. If any changes on above said measures on any other parameters affecting these measures may lead to change, alter, in-corrections even falsifying calculations, results, recommendations and suggestions. The values, figures, amounts mentioned are indicative to the site situation and condition; it may not reflect each and every aspect of it. The report is generated restricted to given scope and available conditions and measures.

### 8. Conclusion

We hereby conclude report for "Energy Audit, Green Audit and Environment Audit" of the Work done under scope of work for "Amdar Deepakbhai Kesarkar Science College Dodamarg, At & Post Dodamarg, Tal. Dodamarg, Dist. Sindhudurg, Maharashtra" Please study it thoroughly and implement recommendations and suggestions at earliest.



AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE DODAMARG

# ANNEXURE-I

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## DETAILS OF INFRASTRUCTURE

Asst. Prof. A. B. Dhenge & Team



**E- Waste :**



E-Waste Collection Box, conveniently placed for easy drop-offs. This initiative helps us manage electronic waste sustainably and reduce environmental impact. Bring old electronics and gadgets here for proper recycling. Together, we can make a positive impact on our campus and beyond!





**Dry and Wet Waste:**

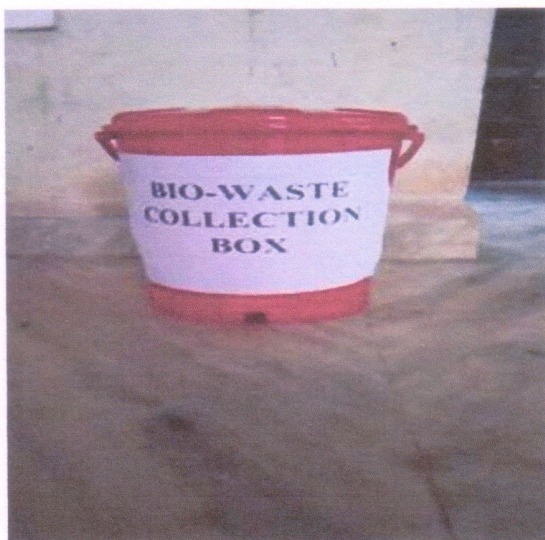


- **Dry Waste Box:** For items like paper, plastics, and metals. Please ensure they are clean and sorted.
- **Wet Waste Box:** For food scraps and biodegradable materials.

Student's cooperation helps us manage waste effectively and supports our campus sustainability efforts. Thank you for helping keep our environment clean!"



**Bio-waste Collection Box :**



We use the Bio Waste Collection Box specifically for Hematology and Pathology waste. This box is designated for the safe disposal of biohazardous materials such as blood samples, tissues, and other clinical waste. Proper disposal is crucial for maintaining a safe and hygienic environment in our labs.



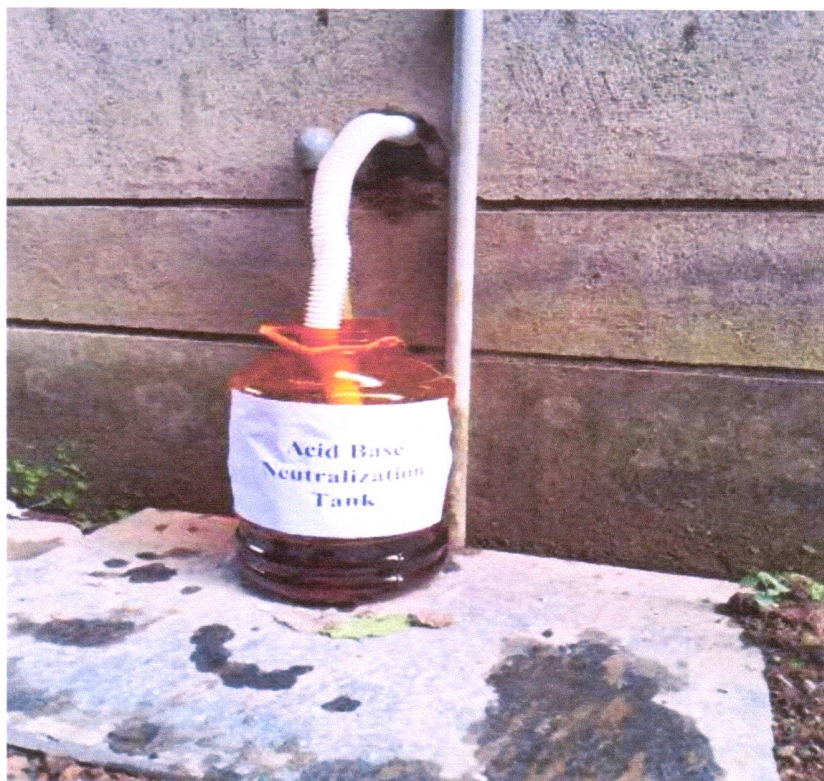
**Paper Waste Collection Box :**



Generally, our administrative office is digitalized due to which we reduce the paperwork. Still, some papers are wasted which is a dropout in the paper waste box. This paper waste is collected and buried under the ground this task helps us to maintain our carbon footprint and to save trees.



Acid Base neutralization tank :



We use this box for the safe disposal of neutralized acids and bases. We ensure that minimum treatment to waste generated from Chemistry laboratory. Substance are properly neutralized and cooled before disposal. This helps us maintain a safe and clean lab environment while managing chemical waste responsibly.



Rainwater Harvesting :



This system captures and stores rainwater during rainy season which is helping us to conserve water and reduce our environmental footprint. This rainwater utilized by Department of chemistry as a substitute for distilled water. Through this we support sustainable practice and contribute to protect and preserve our natural resources!"



Water purification for drinking purpose :



This water filter is use to remove total suspended solids from water also filter the water which is turbid. This small apparatus make water able for drinking purpose.



First Aid Box :



Through this initiative, we take care and support to our students about their health.  
This box contain antiseptic cream, iodine solution, Hydrogen peroxide,  
bandage strip and medicated cotton.



Vermin-compost :



This is one of the best practices run by the Department of Zoology. The biomass generated from the college campus and surrounding is collected and used as raw material for compost preparation. Through this practice, we ensure biodiversity conservation, maintain a carbon footprint, and sustain the institute's sustainable development.





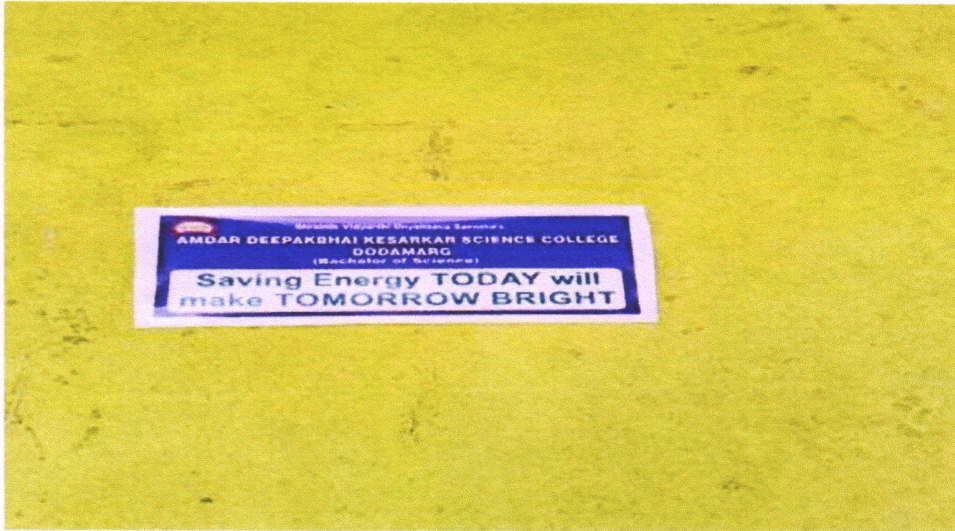
Water resources :



This is the water resource for our college in which submersible water pump is placed inside to bore. Borewell is part of environmental or sustainability projects on campus, such as efforts to manage water resources more effectively.



**Save Energy Poster :**



The posters are used to get the attention of all institute stakeholders toward our environmental awareness. This indication may help us with the conservation of energy which is economically helpful for the society.



**Swacch Bharat Campaign :**

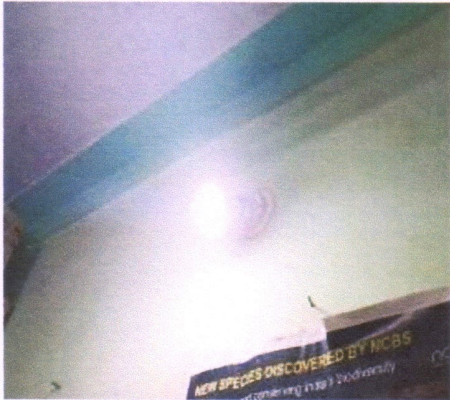


Swacch Bharat Campaign are listed in bulleted points :

- 1) Improving the quality of life in rural areas through cleanliness and personal hygiene.
- 2) To make India free of open defecation within five years.
- 3) Create awareness among communities for adopting a proper sanitization model for better health and life.



**LED Lights :**



LED lights are an efficient, cost-effective, and eco-friendly lighting solution for college. LEDs use up to 75% less energy than traditional incandescent bulbs, significantly reducing electricity consumption. Lower energy use translates to reduced electricity bills, providing substantial cost savings over time. LEDs last up to 25 times longer than incandescent bulbs, reducing the frequency and cost of replacements. LEDs contain no hazardous materials and are 100% recyclable, making them a greener choice.



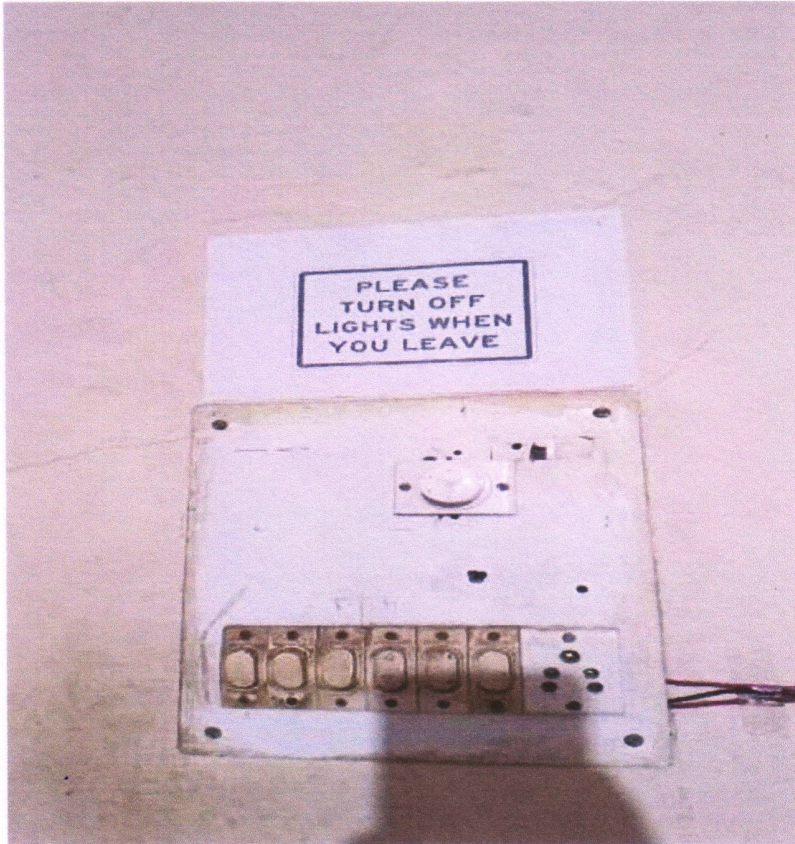
**Plantation :**



In the heart of our bustling college campus, these vibrant potted plants offer a refreshing breath of fresh air and a touch of tranquility. Carefully curated and lovingly tended to by students and staff alike, these verdant companions not only beautify our surroundings but also provide a serene retreat from the academic grind. Their presence is a testament to our community's commitment to fostering a nurturing environment where both nature and learning can thrive in harmony.



Switch off Poster :



This initiative creates an energy conscious society. It helps to inculcate the values of self-responsibility among the workers. After finishing the work on the equipment, it is properly shut down and energy is conserved.



Safe and waste free environment drive :



We organize campus cleaning drive in the institution. It make students aware about their personal health and hygiene.



**Maharashtra Energy Development Agency**

(Government of Maharashtra Institution)

Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary,  
Aundh, Pune, Maharashtra 411067

Ph No: 020-35000450

Email: [eee@mahaurja.com](mailto:eee@mahaurja.com), Web: [www.mahaurja.com](http://www.mahaurja.com)9<sup>th</sup> May, 2023

ECN/2023-24/CR-13/48

**CERTIFICATE OF REGISTRATION  
FOR CLASS 'A'**

We hereby certify that, the firm having following particulars is registered with **MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA)** under given category as "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA.

**Name and Address of the firm** : M/s Saur Engineers & Consultants Pvt. Ltd.,  
Plot No. 108/D-8, Akshay Co.Op.Society,  
Opp. Swami Vivekananda High School, Gorai-1,  
Borivali (W), Mumbai - 400092.

**Registration Category** : *Empanelled Consultant for Energy Conservation Programme for Class 'A'*

**Registration Number** : *MEDA/ECN/2023-24/Class A/EA-28*

- Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
- MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect.
- This empanelment is valid till **8<sup>th</sup> May, 2025** from the date of registration, to carry out energy audits under the Energy Conservation Programme.
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.

  
General Manager (EC)



**धुम्रपान निषिद्ध क्षेत्र**

**येथे धुम्रपान केल्यास रु.२००/-  
एवढा दंड आकारला जाईल**



तुम्हाला कुणी धुम्रपान करताना  
तंबाखू खाताना दिसल्यास सुचना द्या  
प्राचार्य  
फोन नं. (02363) 256755, 9096734707

GPS Map Camera

Dodamarg, Maharashtra, India  
MXJ9+H4F, Dodamarg, Kasai, Maharashtra 416512, India  
Lat 15.681423°  
Long 73.967226°  
31/07/23 11:00 AM GMT +05:30


Google

Shramik Vidyarthi Dnyanseva Sanstha's

**AMDAR DEEPAKBHAI KESARKAR SCIENCE COLLEGE  
DODAMARG  
(Bachelor of Science)**

**Plastic Free Campus**

One Step away from Plastic,  
One Step Closer to Cleanliness.



GPS Map Camera

Dodamarg, Maharashtra, India  
MXJ9+H4F, Dodamarg, Kasai, Maharashtra 416512, India  
Lat 15.681441°  
Long 73.96723°  
27/08/24 03:05 PM GMT +05:30

Google

Shramik Vidyarthi Dnyanseva Sanstha's

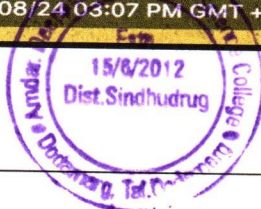
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DODAMARG  
(Bachelor of Science)**

**Saving Energy TODAY will  
make TOMORROW BRIGHT**

GPS Map Camera

Dodamarg, Maharashtra, India  
MXJ9+H4F, Dodamarg, Kasai, Maharashtra 416512, India  
Lat 15.68142°  
Long 73.967112°  
27/08/24 03:07 PM GMT +05:30

Google





*S. D. Phadnis*  
 IQAC Coordinator,  
 A.D.K. Science College  
 Dodamarg.



*S. D. Phadnis*  
 Principal  
 Amdar Deepakbhai Kesarkar Science College  
 Dodamarg, Tal. Dodamarg, Dist. Sindhudrug