DHARITREE
ENVIRO RESEARCH CENTRE

CERTIFICATE OF ENVIRONMENTAL AUDIT

This is to certify that

Pune Vidyarthi Griha's College of Science & Technology

(Affiliated to University of Mumbai)

Located at CTS No. 218, Br. Nath Pai Nagar,
Ghatkopar (E) Mumbai

Has successfully undergone for Environmental Audit to establish Eco-friendly practices for conservation of environment at all stages. The environmental awareness initiatives taken by the college are substantial to meet all the standards for maintaining a sustainable environment in the college premises.

Dharitree Enviro Research Centre
THANE

(Term of validity)
June, 1st 2017 - May, 31st 2019

Salaskar

Date of Issue: 4th June 2017

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

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DHARITREE ENVIRO RESEARCH CENTRE

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Pune Vidyarthi Griha's College of Science & Technology

ENVIRONMENTAL AUDIT REPORT

(2017 – 2019)

For Dharitree Enviro Research Centre

Salaskar

Proprietor

PHOTOGALLARY

Green belt in the college premises

Fire Extinguishers

Approach Road to College

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

History:

An education only can provide, the stability, and one could gain name and fame in the society, an education is a wealth and becomes a treasure to the ones, who do not have money, and to the ones, who have a clever brain and ambitions in mind. "Anath Vidyarthi Griha" came into existence in the year 1909 on May 12th, having the same motto and with the aspiration to educate the poor and destitute needy children. There were many of the students, who used to work hard and some of them would get the charitable offerings from the society, but there was not a home or shelter for them and even a school where they would get an education. Eventually, this task was shouldered idealistically by "Pune Vidyarthi Griha".

Considering the increase in the volume of the students, in year 1912, the arrangement was made to stay for the students at Nagnath Par in the palatial house owned by Shri. Balukaka Kanitkar. It was a time that the school at Yeotmal was closed down by the Government, and so Shri Balukaka Kanitkar had become a part of the Institute. Shri. Balukaka Kanitkar had a wish that this institute should gain its name and fame not only giving education and shelter to the needy and destitute children, but also to hold a fame for offering "National Education", i. e. My Country, My Religion, My Language", which indulges into the fields such as Physical, Intellectual and Professional Education. In the year 1916-17, Shri. Balukaka Kanitkar had shifted one of its branches at Chinchwad. Shri Babasaheb Patwardhan had donated his palatial house of Kasaba Peth to the Institute, and **Shri Dadasaheb Ketkar** had opened the second branch in a row.

The Pune Vidyarthi Griha's College of Science & Technology was established in the year 2008. Itis Affiliated to University of Mumbai and Recognized by Govt. of Maharashtra in 2008. Initially the permission was granted only for B. Sc. Information Technology & B.Sc. Computer Science Course. Observing the excellence of the college, the University granted the permission to the college to start B.com, BMS & BBI course in the year 2017 – 18.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Preface....

Pune Vidyarthi Griha's College of Science & Technology aims at producing awareness about the environment consciousness. The institute takes initiatives to organize different events of green practices to percolate the knowledge amongst students, teachers, and nonteaching staff. This green message being transferred along with its practical dimensions among the families, societies and thereby to the stakeholders, forms a chain and network to spread the message at large. College is also aimed at giving solution to the different burning topics related to the environment, its awareness as well as its protection. As the government is taking initiative to sensitize mass with environment protection, newer concepts are being introduced to make college eco-friendly. To create and conserve the environment within the campus and to solve the environmental problems such as promotion of the energy savings, energy conservation, water reduction, water harvesting, solid waste management, improvement in the air quality of the campus, control on noise pollution, and minimizing the use of Plastic, etc. is one of the prime objective of the college.

Environment audit report is one such initiative that has been introduced to make the educational institute environmentally sustainable and active in spreading the education about the same. It is a tool to assess general practices implemented by the organization in terms of the impact on environment. The report also aims to spread the awareness on the adverse practices that are responsible for the degradation of the environment and how strongly the institute is involved in curtailing those practises. It helps in recognizing the need of a college to work around the year for environment sustainability. Thus, Environment audit forms the base line survey to decide for the Green policy.

I/C Principal
Pune Vidarthi Griha's
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Acknowledgement....

We take this opportunity to express our gratitude towards the president of the Institute, Hon. President, **Shri. Sunil Redekar** and Hon. Secretary of College Development Committee, **Dr. Rajendar Kambale**, & Hon. Director **Shri. Rajendra Borade** and all Hon. Members of the CDC committee of the college for their valuable guidance, continuous encouragement, generous gift of time with constructive critism & suggestion during the composition of work of entire," Environmental Audit Report- 2017-19".

We also express our deep sense of gratitude to our Hon. Principal, **Dr B.G Kulkarni**, who inspired and encouraged us throughout the work. We gratefully acknowledge the help provided by him on several occasions.

It is right time to express our deep sense of gratitude to our college **Prof. Seema Gargote, Prof. Trupti Rongare** and **Prof. Priya Jadhav** for their continuous help, inspiring resoluteness and sensible suggestion without any reservation whenever we approached throughout investigation.

We are thankful to **Dr. Ajay Kumar Pathak** for his valuable guidance.

We are equally thankful to our colleagues' teachers and students of **B.Sc CS/B.Sc. IT/ B.Com/ BMS** which helps during data collections and identification of plants.

Coordinator,
Environmental Audit Report

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Principal Message....

I express my hearty wishes for success of this publication of 'Environmental Audit 2017- 2019'. Efforts made by our institution and senior college for the protection of environment and biodiversity conservation is really unique, which may become pilot project gives message about to avoid the for coming natural disaster like global warming, land sliding etc. We try to maintain environment eco-friendly through activities like landscaping and plantation, rain water harvesting, solid waste Management, sewage treatment plant, energy conservation, e-waste management, and paperless technology to minimize the use of paper basically prepare from the plants.

The ultimate aim of our institution to develop youth as fertile probe who understand for their social responsibilities.

I express my hearty wishes for success of this movement of Environmental Audit Report for the new beginning of the conservation from the doorstep of the people.

Our Environmental audit reflects assessment and achievement of vision and mission of the college.

Dr. B .G. Kulkarni

Principal

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

ENVIRONMENTAL AUDIT REPORT COMMITTEE

(2017 – 2019)

Sr. No.	Name	Designation	Committee Role	Signature
1	Dr. B.G. Kulkarni	Principal	Coordinator	
2	Dr. Pramod Salaskar	Dharitree Enviro Research Centre	External Auditor	
3	Prof. Seema Gargote	Asst. Professor	Internal Auditor	
4	Prof. Trupti Rongare	Asst. Professor	Internal Auditor	
5	Prof. Priya Jadhav	Asst. Professor	Internal Auditor	

I/C Principal
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I/C Principal
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NEED FOR ENVIRONMENT AUDITING:

Environment auditing is the process of identification and determination of the institution's practices in creating awareness and practising the environment friendly measures. Over the period of time over exploitation of resources like energy, water, etc. have resulted in the environmental degradation. It is necessary to check whether our way of living and handling resources is not going to cause detrimental effects in our surroundings. Environment audit Report aims at summarising the college's contribution and its activeness in creating awareness and consciousness in practically applying the environmental friendly measures towards an institute.

GOALS OF ENVIRONMENT AUDIT:

Identification and documentation of environment practices followed by university.

2. Identify strength and weakness in environment practices.
3. Analyze and suggest solution for problems identified.
4. Assess facility of different types of waste management.
5. Increase environmental awareness throughout campus
6. Identify and assess environmental risk.
7. Motivates staff for optimized sustainable use of available resources.
8. The long-term goal of the environmental audit program is to collect baseline data of environmental parameters and resolve environmental issue before they become problem.

OBJECTIVES OF ENVIRONMENT AUDIT:

1. To examine the current practices, which can impact on environment such as of resource utilization, waste management etc.
2. 2. To identify and analyze significant environmental issues.
3. Setup goal, vision, and mission for environment practices in campus.
4. Establish and Implement Environment Management in various departments.
5. Continuous assessment for betterment in performance in environment

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BENEFITS OF ENVIRONMENT AUDIT TO EDUCATIONAL INSTITUTIONS:

1. It would help to protect the environment in and around the campus.
2. 2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Empower the organization to frame a better environmental performance.
4. It portrays good image of institution through its clean and green campus. Finally, it will help to build positive impression for through green initiatives the upcoming NAAC visit

OBJECTIVE AND SCOPE:

1. Environmental education through systematic environmental management approach
2. Improving environmental standards
3. Benchmarking for environmental protection initiatives
4. Sustainable use of natural resource in the campus.
5. Financial savings through a reduction in resource use
6. Curriculum enrichment through practical experience
7. Development of ownership, personal and social responsibility for the College campus and its environment
8. Enhancement of College profile
9. Developing an environmental ethic and value systems in young people

EXECUTIVE SUMMARY:

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance. This audit report contains observations and recommendations for improvement of environmental consciousness.

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Table: Species wise count of trees

Sr. No.	Botanical Name	Local Name	Family	Native/ Introd. / Nt.	Vegetation type	No. of individuals plants
1	*Aegle marmelos*	Bel	Rutaceae	Native	Deciduous	1
2	*Annona squamosa*	Sitaphal	Annonaceae	Nt	Evergreen	3
3	*Artocarpus heterophyllus*	Phanus	Moraceae	Native	Evergreen	1
4	*Azadirachta indica*	Neem	Meliaceae	Native	Evergreen	2
5	*Bombax ceiba*	Katesavar	Malvaceae	Native	Deciduous	1
6	*Carica papaya*	Pappayi	Caricaceae	Native	Evergreen	1
7	*Cocos nucifera*	Naral	Arecaceae	Native	Evergreen	47
8	*Delonix regia*	Gulmohar	Caesalpiniaceae	Nt	Evergreen	1
9	*Dypsis lutescens*	Areca palm	Arecaceae	Nt	Evergreen	1
10	*Eucalyptus grandis*	Neelgiri	Myrtaceae	Nt	Evergreen	3
11	*Ficus benghalensis*	Vad	Moraceae	Native	Evergreen	1
12	*Ficus racemosa*	Umber	Moraceae	Native	Evergreen	3
13	*Hyophorbe lagenicaulis*	Bottle Palm	Arecaceae	Nt	Evergreen	7
14	*Mangifera indica*	Amba	Anacardiaceae	Native	Evergreen	4
15	*Moringa oleifera*	Shevga	Moringaceae	Native	Deciduous	1
16	*Murraya koenigii*	Kaddi patta	Rutaceae	Native	Deciduous	1
17	*Neolamarckia cadamba*	Kadamb	Rubiacea	Native	Evergreen	1
18	*Peltophorum pterocarpum*	Sonmohar	Caesalpiniaceae	Introd	Evergreen	3
19	*Plumeria obtusa*	Chapha	Apocynaceae	Introd	Evergreen	1
20	*Polyalthia longifolia*	Ashoka	Annonaceae	Native	Evergreen	14
21	*Pongamia pinnata*	Karanj	Fabaceae	Native	Deciduous	1
22	*Tectona grandis*	Sagwan	Verbenaceae	Native	Deciduous	18

200

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23	*Terminalia catapa*	Deshibadam	Combretaceae	Native	Deciduous	6
					Total	122

Table 2: Avifaunal diversity observed immediate surroundings of the College Campus

Family	Scientific Name	Common Name	IUCN Status	IWPA Assessment	Feeding Habit	Dwelling Status
Corvidae	*Corvus splendens*	House Crow	Least Concern ver 3.1	Schedule - V	Omnivorous	R
Pycnonotidae	*Pycnonotus cafer*	Red Vented Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
	Pycnonotus jocosus	Red Whiskered Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
Meropidae	*Merops orientalis*	Small Bee Eater	Least Concern ver 3.1	--	Insectivorous	R
Halcyonidae	*Halcyon smyrnensis*	White-throated Kingfisher	Least Concern ver 3.1	Schedule -IV	Piscivorous & Insectivorous	R
Columbidae	*Columba livia*	Blue Rock Pigeon	Least Concern ver 3.1	--	Granivorous	R
Dicruridae	*Dicrurus macrocercus*	Black Drongo	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
Sturnidae	*Acridotheres tristis*	Common Myna	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
Muscicapidae	*Copsychus saularis*	Oriental Magpie-Robin	Least Concern ver 3.1	--	Insectivorous & Herbivorous	R
Cuculidae	*Centropus sinensis*	Greater Coucal	Least Concern ver 3.1	Schedule -IV	Carnivorous	R

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AMBIENT AIR STATION

Date Of sampling	14/04/2017	Analysis Completed On	19/04/2017
Location of H.V.S.	Aprrox. 50 meter from Main Gate		
Lateral Distance	60 Meter from Main Gate		
Receptor Distance	1.5 Meters From Ground Level		
Ambient Temperature (°C)	29	Humidity (%)	39
Wind Speed (km/hr)	07	Wind Direction (deg°)	W 264
Instruments Used	R.D.S.(APM- 460), F.P.S.(APM – 550), G.P.S.(APM – 411) & Benzene Sampler (GTI-177)		

POLLUTIONAL PARAMETERS

Parameters	Result	Units	NAAQS Limits	Method
PM_{10}	67	µg/m³	100.00	IS 5182 (Part 23): 2006 (RA 2022)
$PM_{2.5}$	36	µg/m³	60.00	EPA Quality assurance guidance document 2.12, based on CPCB- 2011
SO_2	23	µg/m³	80.00	IS 5182 (Part 2): 2001 (RA 2022)
NO_2	19	µg/m³	80.00	IS 5182 (Part 6): 2006 (RA 2022)
Ammonia (NH_3)	<20	µg/m³	400.00	CPCB Guidelines For Measurement Of Ambient Air Pollutants Volume-I ,2011
CO	0.92	mg/m³	04.00	IS 5182 (Part 10) : 1999 [RA 2019]
Lead as Pb	<0.1	µg/m³	01.00	EPA compendium method IO 3.5:2012
Benzene (C_6H_6)	< 4	µg/m³	5.00	IS 5182 (Part 11) :2006 (RA 2022)
Arsenic(As)	< 5	ng/m³	6.00	EPA compendium method IO 3.5:2012
Nickel(Ni)	< 5	ng/m³	20.00	EPA compendium method IO 3.5:2012
Ozone (O_3)	17	µg/m³	180.00	IS 5182 (Part 9): 1974 RA 2019
Benzo(a)Pyrene	< 0.1	ng/m³	1.00	IS 5182 (Part 12): 2004 (RA 2019)

NOTE: 1) The above results relate only to the item tested & the condition prevailing at the time of sampling

2) PM_{10}-Particulate Matter of size < 10 µm, $PM_{2.5}$ - Particulate Matter of size < 2.5 µm

3) NAAQS-National Ambient Air Quality Standards

4) Lower Detection Limit (NH_3 <20 µg/m³), (Pb <0.10 µg/m³), (C_6H_6 <4 µg/m³), (As <5 ng/m³), (Ni <5 ng/m³), (Benzo(a)Pyrene < 0.1 ng/m³)

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AMBIENT NOISE LEVEL MONITORING		
Date Of Monitoring : **26.04.2017**		
Sampling Location : Approx. 50 Meter from Main Gate		
Sr. No.	**Time**	**Noise Levels in dB(A) Leq***
1	8.00 am	43.1
2	9.00 am	46.7
3	10.00 am	53.3
4	11.00 am	49.4
5	12.00 am	41.2
6	2.00 pm	39.2
7	4.00 pm	45.6
8	6.00 pm	58.4

Method:-IS:9989-1981 (RA 2001)

NOTE: 1) CPCB Limit During Day time < 55. (Day time shall mean from 6.00 am to 10.00 pm.)

2) CPCB Limit During Night time < 45. (Night time shall mean from 10.00 pm to 6.00 am.)

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ANALYSIS TEST REPORT

Sample Collection Date	16/04/2017	Analysis Completed On	28/04/2017
Sampling Point	**Canteen**		
Sample Details	**Drinking Water**		
Sample Container	PVC Can	Sample Quantity	5000 ml

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	pH	7.3	-	6.5 - 8.5	IS 3025 (Part-11): 2022
2	Colour	<5	CU	5.0	IS 3025 (Part-4/4): 2021
3	Odour	Agreeable	-	Agreeable	IS3025 (Part-5):2018:RA 2022
4	TDS	113	mg/lit	500	IS 3025 (Part-16):2023
5	Turbidity	<1.0	NTU	1.00	IS 3025 (Part-10): 1984:RA 2022
6	Ammonia	<0.5	mg/lit	0.5	IS 3025 (Part 34/2.2 & 2.3): 1988:RA 2019
7	Chlorides as Cl	9.4	mg/lit	250.00	IS 3025 (Part 32/2): 1988: RA 2019
8	Fluorides as F	0.4	mg/lit	1.0	APHA (24th Edition) 4500 F – D -
9	Residual Chlorine	<0.2	mg/lit	0.2	IS 3025 (P-26/5):2021
10	Nitrate as NO_3	10.2	mg/lit	45.00	APHA (24th Edition) 4500- NO_3-B -
11	Total Alkalinity as	43.8	mg/lit	200	IS 3025(Part23/8.1):1986: RA
12	Total Hardness as	52.6	mg/lit	200.00	IS 3025(Part21/5):2009: RA 2019
13	Sulphate as SO4	2.7	mg/lit	200.00	APHA (24th Edition) 4500 SO4 – E – 2022
14	Cyanide as CN	<0.05	mg/lit	0.05	IS 3025 (Part27/sec1/4) :2021
15	Calcium as Ca	13.6	mg/lit	75.00	IS 3025 (Part40/5):1991: RA 2019
16	Magnesium as	4.92	mg/lit	30.00	IS 3025 (Part 52-6):2003: RA 2019
17	Total Chromium	<0.01	mg/lit	0.05	IS 3025 (Part46/6):1994: RA 2019

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SOLID WASTE MANAGEMENT

Aim :-

1) Scientific disposal of solid waste

2) Protection of human health and environment

Objective:-

1) To increase recycling level

2) To reduce organic waste in landfills

3) To control air, water, soil pollution

4) Production of green manure and vermicompost.

Activity / Observation :

Solid waste is separated as dry and wet. Dry waste includes plastic, glass, paper, metals, wood and related product. Wet waste typically refers to organic waste usually generated as canteen waste, plant debris. Dry waste is separated and it is given for its reuse and recycling to the recycler agency to avoid the pollution. Wet waste is also known as organic waste. It is obtain from canteen , fallen leaves , litter, ort, trash etc. produce in this campus if it is not disposed properly it creates air pollution, to avoid this we have implemented solid organic waste management activity, we run it at two level one is decomposition of solid waste through the composting in pit, vermicompost form solid organic waste and second is training to the students, farmers about production of organic manure like vermicompost, production of mushroom from the solid organic agricultural waste which ultimately conversion of Best from Waste, further the best biofertilizer is used for plants of college campus which enhances greenery leads environment clean and fresh.

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ENVIRONMENT AWARENESS PROGRAM

Aim and objective:

- To plan, organize and implement programmes like landscape and plantation, water management & conservation, and rain water harvesting.
- To provide education that prepares students for leadership and social responsibility teaching them to think and communicate effectively and develop a global awareness.
- To introduce environmental education programmes for strengthen the existing ecological and environment related training infrastructure.
- To organize training programmes for vocationalisation of environmental careers.
- To strengthen Global Environmental Education Programmes for standardization of greening activities.
- To introduce environmental education programmes in strengthen the existing ecological and environment related training infrastructure.
- To make special plans for the studies vermiculture, plantation, nursery development, water & energy conservation and management, rain water harvesting and other related fields.
- To provide environmental education that prepares students for leadership and social responsibility by teaching them to think and communicate effectively and develop global environmental awareness and sensitivity.

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Ventilation and Indoor Air Quality (IAQ) :

- There is adequate size of windows in college class rooms as well as in corridor which allow sufficient light and ventilation.
- Corridors are wide with good ceiling height
- Classrooms also have high ceiling with wide doors. Windows are kept open to receive sunlight.
- All classrooms are provided with ceiling fans for proper air circulation.

Water Efficiency & Wastewater Management:

- Two RO filtration plant has been installed on main building to provide clean drinking water in campus.
- No water leakage observed anywhere in Campus.
- The students have awareness for water conservation.

Energy Efficiency:

- All the CRT monitors of computers have been replaced with LED monitors.
- Computers are kept switched off when not required to operate.
- Save energy posters/stickers such as "Switch off all electrical equipment's when not required to use" at maximum locations to spread energy conservation awareness.
- All conventional incandescent tube lights are replaced with LED tube lights.

Ambiance and Acoustic Control:

- Tree plantation in and around the campus help in reducing ambient temperature and acoustic control.
- The college is located away from road side so there is no major noise pollution.

Waste Management:

Paper waste

- Being academic institution, waste paper is the main solid waste generated in the premises. The institution has taken steps to minimize usage of papers by implementing e-notice board.

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- Both sides of the pages are utilized to avoid excess paper usages.
- Paper wastes are not directly disposed off in dustbin, it is given to local vendors for recycling and reuse.

e-waste

- The college has taken initiative to segregate and collect e-wastes and stored at designated place for its proper disposal.

Canteen and Solid Waste Management

- Wet and dry wastes are segregated in college canteens and directly handed over to the concern Municipal Corporation for disposal.
- Bio-degradable and Non-biodegradable waste is generated labs, are also segregated and disposed of through Municipal Corporation

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Location:

Pune Vidyarthi Griha's College of Science & Technology located at CTS No. 218, Br. Nath Pai Nagar, Ghatkopar-E Ghatkopar (East) Mumbai-400077, Maharashtra, India.

Figure. Schematic representation of Pune Vidyarthi Griha's College of Science & Technology Campus

Country	India
State	Maharashtra
District	Mumbai
City	Mumbai
Area	Ghatkopar East
Elevation	20 meter
Population (1917)	6.2 Lakh
Area Code	+91 – 022
Official Languages	Marathi, English
College Campus area:	Approximately 9,586.6Sq. meter
Perimeter	Approximately 467.3 meter
Location:	19°04.197'N; 72°54.236'E

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Green belt around the college premises

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It is right time to express our deep sense of gratitude to our college **Prof. Meena Patel, Prof. Sadhana Mishra,** and **Prof. Gaurav Singh** for their continuous help, inspiring resoluteness and sensible suggestion without any reservation whenever we approached throughout investigation.

We are thankful to **Dr. B.G Kulkarni,** President of Alumni Pune Vidyarthi Griha for his valuable guidance.

We are equally thankful to our colleague's teachers and students of B.Sc. CS/B.Sc. IT /B.Com/ BMS which helps during data collection and identification of plants.

Coordinator,

Environmental Audit Report

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Principal Message....

I express my hearty wishes for success of this publication of 'Environmental Audit 2019- 2021'. Efforts made by our institution and senior college for the protection of environment and biodiversity conservation is really unique, which may become pilot project gives message about to avoid the for coming natural disaster like global warming, land sliding etc. We try to maintain environment eco-friendly through activities like landscaping and plantation, rain water harvesting, solid waste Management, sewage treatment plant, energy conservation, E-waste management, and paperless technology to minimize the use of paper basically prepare from the plants.

The ultimate aim of our institution to develop youth as fertile probe who understand for their social responsibilities.

I express my hearty wishes for success of this movement of Environmental Audit Report for the new beginning of the conservation from the doorstep of the people.

Our Environmental audit reflects assessment and achievement of vision and mission of the college.

Dr. Ajay Kumar Pathak
I/C Principal

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

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I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

ENVIRONMENTAL AUDIT REPORT COMMITTEE

(2019 – 2021)

Sr.No.	Name	Designation	Committee Role	Signature
1	Dr. Ajay Kumar Pathak	I/C Principal	Coordinator	
2	Dr. Pramod Salaskar	Dharitree Enviro Research Centre	External Auditor	
3	Prof. Meena Patel	Asst. Professor	Internal Auditor	
4	Prof. Sadhana Mishra	Asst. Professor	Internal Auditor	
5	Prof. Gaurav Singh	Asst. Professor	Internal Auditor	

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Location:

Pune Vidyarthi Griha's College of Science & Technology located at CTS No. 218, Br. Nath Pai Nagar, Ghatkopar-E Ghatkopar (East) Mumbai-400077, Maharashtra, India.

Figure. Schematic representation of Vidya Bhavan Campus

Country	India
State	Maharashtra
District	Mumbai
City	Mumbai
Area	Ghatkopar East
Elevation	20 meter
Population	**Population (2020):** 146056
	Male Population: 76084 **Female Population:** 69972
Area Code	+91 – 022
Official Languages	Marathi, English
College Campus area:	Approximately 9,586.6Sq. meter
Perimeter	Approximately 467.3 meter
Location:	19°04.197'N; 72°54.236'E

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

History:

An education only can provide, the stability, and one could gain name and fame in the society, an education is a wealth and becomes a treasure to the ones, who do not have money, and to the ones, who have a clever brain and ambitions in mind. "Anath Vidyarthi Griha" came into existence in the year 1909 on May 12th, having the same motto and with the aspiration to educate the poor and destitute needy children. There were many of the students, who used to work hard and some of them would get the charitable offerings from the society, but there was not a home or shelter for them and even a school where they would get an education. Eventually, this task was shouldered idealistically by "Pune Vidyarthi Griha".

Considering the increase in the volume of the students, in year 1912, the arrangement was made to stay for the students at Nagnath Par in the palatial house owned by Shri. Balukaka Kanitkar. It was a time that the school at Yeotmal was closed down by the Government, and so Shri Balukaka Kanitkar had become a part of the Institute. Shri. Balukaka Kanitkar had a wish that this institute should gain its name and fame not only giving education and shelter to the needy and destitute children, but also to hold a fame for offering "National Education", i. e. My Country, My Religion, My Language", which indulges into the fields such as Physical, Intellectual and Professional Education. In the year 1916-17, Shri. Balukaka Kanitkar had shifted one of its branches at Chinchwad. Shri Babasaheb Patwardhan had donated his palatial house of Kasaba Peth to the Institute, and **Shri Dadasaheb Ketkar** had opened the second branch in a row.

The Pune Vidyarthi Griha's College of Science & Technology was established in the year 2008. Itis Affiliated to University of Mumbai and Recognized by Govt. of Maharashtra in 2008. Initially the permission was granted only for B. Sc. Information Technology & B.Sc. Computer Science Course. Observing the excellence of the college, the University granted the permission to the college to start B.com, BMS & BBI course in the year 2017 – 18.

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Pune Vidyarthi Griha's College of Science & Technology Ghatkopar (East) Mumbai 400 077.

DHARITREE ENVIRO RESEARCH CENTRE

CERTIFICATE OF ENVIRONMENTAL AUDIT

This is to certify that

Pune Vidyarthi Griha's College of Science & Technology

(Affiliated to University of Mumbai)

Located at CTS No. 218, Br. Nath Pai Nagar,
Ghatkopar (E) Mumbai

Has successfully undergone for Environmental Audit to establish Eco-friendly practices for conservation of environment at all stages. The environmental awareness initiatives taken by the college are substantial to meet all the standards for maintaining a sustainable environment in the college premises.

Dharitree Enviro Research Centre THANE

(Term of validity)
June, 1st 2019 - May, 31st 2021

Date of Issue: 3rd June 2019

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

NEED FOR ENVIRONMENT AUDITING:

Environment auditing is the process of identification and determination of the institution's practices in creating awareness and practising the environment friendly measures. Over the period of time over exploitation of resources like energy, water, etc. have resulted in the environmental degradation. It is necessary to check whether our way of living and handling resources is not going to cause detrimental effects in our surroundings. Environment audit Report aims at summarising the college's contribution and its activeness in creating awareness and consciousness in practically applying the environmental friendly measures towards an institute.

GOALS OF ENVIRONMENT AUDIT:

1. Identification and documentation of environment practices followed by university.
2. Identify strength and weakness in environment practices.
3. Analyze and suggest solution for problems identified.
4. Assess facility of different types of waste management.
5. Increase environmental awareness throughout campus
6. Identify and assess environmental risk.
7. Motivates staff for optimized sustainable use of available resources.
8. The long-term goal of the environmental audit program is to collect baseline data of environmental parameters and resolve environmental issue before they become problem.

OBJECTIVES OF ENVIRONMENT AUDIT:

1. To examine the current practices, which can impact on environment such as of resource utilization, waste management etc.
2. 2. To identify and analyze significant environmental issues.
3. Setup goal, vision, and mission for environment practices in campus.
4. Establish and implement Environment Management in various departments.
5. Continuous assessment for betterment in performance in environment

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

BENEFITS OF ENVIRONMENT AUDIT TO EDUCATIONAL INSTITUTIONS:

1. It would help to protect the environment in and around the campus.
2. 2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Empower the organization to frame a better environmental performance.
4. It portrays good image of institution through its clean and green campus. Finally, it will help to build positive impression for through green initiatives the upcoming NAAC visit

OBJECTIVE AND SCOPE:

1. Environmental education through systematic environmental management approach
2. Improving environmental standards
3. Benchmarking for environmental protection initiatives
4. Sustainable use of natural resource in the campus.
5. Financial savings through a reduction in resource use
6. Curriculum enrichment through practical experience
7. Development of ownership, personal and social responsibility for the College campus and its environment
8. Enhancement of College profile
9. Developing an environmental ethic and value systems in young people

EXECUTIVE SUMMARY:

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance. This audit report contains observations and recommendations for improvement of environmental consciousness.

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Table: Species wise count of trees

Sr. No.	Botanical Name	Local Name	Family	Native/ Introd. / Nt.	Vegetation type	No. of individuals plants
1	*Aegle marmelos*	Bel	Rutaceae	Native	Deciduous	1
2	*Annona squamosa*	Sitaphal	Annonaceae	Nt	Evergreen	3
3	*Artocarpus heterophyllus*	Phanus	Moraceae	Native	Evergreen	1
4	*Azadirachta indica*	Neem	Meliaceae	Native	Evergreen	2
5	*Bombax ceiba*	Katesavar	Malvaceae	Native	Deciduous	1
6	*Carica papaya*	Pappayi	Caricaceae	Native	Evergreen	1
7	*Cocos nucifera*	Naral	Arecaceae	Native	Evergreen	47
8	*Delonix regia*	Gulmohar	Caesalpiniaceae	Nt	Evergreen	1
9	*Dypsis lutescens*	Areca palm	Arecaceae	Nt	Evergreen	1
10	*Eucalyptus grandis*	Neelgiri	Myrtaceae	Nt	Evergreen	3
11	*Ficus benghalensis*	Vad	Moraceae	Native	Evergreen	1
12	*Ficus racemosa*	Umber	Moraceae	Native	Evergreen	3
13	*Hyophorbe lagenicaulis*	Bottle Palm	Arecaceae	Nt	Evergreen	7
14	*Mangifera indica*	Amba	Anacardiaceae	Native	Evergreen	4
15	*Moringa oleifera*	Shevga	Moringaceae	Native	Deciduous	1
16	*Murraya koenigii*	Kaddi patta	Rutaceae	Native	Deciduous	1
17	*Neolamarckia cadamba*	Kadamb	Rubiacea	Native	Evergreen	1
18	*Peltophorum pterocarpum*	Sonmohar	Caesalpiniaceae	Introd	Evergreen	3
19	*Plumeria obtusa*	Chapha	Apocynaceae	Introd	Evergreen	1
20	*Polyalthia longifolia*	Ashoka	Annonaceae	Native	Evergreen	14
21	*Pongamia pinnata*	Karanj	Fabaceae	Native	Deciduous	1
22	*Tectona grandis*	Sagwan	Verbenaceae	Native	Deciduous	18
23	*Terminalia catapa*	Deshibadam	Combretaceae	Native	Deciduous	6
					Total	122

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Table 2: Avifaunal diversity observed immediate surroundings of the College Campus

Sr. No.	Family	Scientific Name	Common Name	IUCN Status	IWPA Assessment	Feeding Habit	Dwelling Status
1	Corvidae	*Corvus splendens*	House Crow	Least Concern ver 3.1	Schedule - V	Omnivorous	R
2		*Corvus macrorhynchos*	Jungle Crow	Least Concern ver 3.1	--	Omnivorous	R
3	Pycnonotidae	*Pycnonotus cafer*	Red Vented Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
4		*Pycnonotus jocosus*	Red Whiskered Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
5	Meropidae	*Merops orientalis*	Small Bee Eater	Least Concern ver 3.1	--	Insectivorous	R
6	Halcyonidae	*Halcyon smyrnensis*	White-throated Kingfisher	Least Concern ver 3.1	Schedule -IV	Piscivorous & Insectivorous	R
7	Columbidae	*Streptopelia chinensis*	Spotted Dove	Not Assessed	Schedule -IV	Granivorous	R
8		*Columba livia*	Blue Rock Pigeon	Least Concern ver 3.1	--	Granivorous	R
9	Dicruridae	*Dicrurus macrocercus*	Black Drongo	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
10	Sturnidae	*Acridotheres tristis*	Common Myna	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
11	Muscicapidae	*Copsychus saularis*	Oriental Magpie-Robin	Least Concern ver 3.1	--	Insectivorous & Herbivorous	R
12	Cuculidae	*Centropus sinensis*	Greater Coucal	Least Concern ver 3.1	Schedule -IV	Carnivorous	R

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AMBIENT AIR STATION

Date Of sampling	10/05/2019	Analysis Completed On	17/05/2019
Location of H.V.S.	Aprrox. 50 meter from Main Gate		
Lateral Distance	80 Meter from Main Gate		
Receptor Distance	1.5 Meters From Ground Level		
Ambient Temperature (^{0}C)	32	Humidity (%)	43
Wind Speed (km/hr)	08	Wind Direction (deg^0)	W 267
Instruments Used	R.D.S.(APM- 460), F.P.S.(APM – 550), G.P.S.(APM – 411) & Benzene Sampler (GTI-177)		

POLLUTIONAL PARAMETERS

Parameters	Result	Units	NAAQS Limits	Method
PM_{10}	60	µg/m^3	100.00	IS 5182 (Part 23): 2006 (RA 2022)
$PM_{2.5}$	32	µg/m^3	60.00	EPA Quality assurance guidance document 2.12, based on CPCB- 2011
SO_2	19	µg/m^3	80.00	IS 5182 (Part 2): 2001 (RA 2022)
NO_2	17	µg/m^3	80.00	IS 5182 (Part 6): 2006 (RA 2022)
Ammonia (NH_3)	<20	µg/m^3	400.00	CPCB Guidelines For Measurement Of Ambient Air Pollutants Volume-I ,2011
CO	0.86	mg/m^3	04.00	IS 5182 (Part 10) : 1999 (RA 2019)
Lead as Pb	<0.1	µg/m^3	01.00	EPA compendium method IO 3.5:2012
Benzene (C_6H_6)	< 4	µg/m^3	5.00	IS 5182 (Part 11) :2006 (RA 2022)
Arsenic(As)	< 5	ng/m^3	6.00	EPA compendium method IO 3.5:2012
Nickel(Ni)	< 5	ng/m^3	20.00	EPA compendium method IO 3.5:2012
Ozone (O_3)	13	µg/m^3	180.00	IS 5182 (Part 9): 1974 RA 2019
Benzo(a)Pyrene	< 0.1	ng/m^3	1.00	IS 5182 (Part 12): 2004 (RA 2019)

NOTE: 1) The above results relate only to the item tested & the condition prevailing at the time of sampling

2) PM_{10}-Particulate Matter of size < 10 µm, $PM_{2.5}$ - Particulate Matter of size < 2.5 µm

3) NAAQS-National Ambient Air Quality Standards

4) Lower Detection Limit (NH_3 <20 µg/m^3), (Pb <0.10 µg/m^3), (C_3H_6 <4 µg/m^3), (As <5 ng/m^3), (Ni <5 ng/m^3), (Benzo(a)Pyrene < 0.1 ng/m^3)

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College of Science & Technology

AMBIENT NOISE LEVEL MONITORING		
Date Of Monitoring : **24.05.2019**		
Sampling Location : 50 Meter from Main Gate		
Sr. No.	**Time**	**Noise Levels in dB(A) Leq***
1	8.00 am	39.4
2	9.00 am	42.4
3	10.00 am	56.8
4	11.00 am	51.6
5	12.00 am	48.2
6	2.00 pm	50.4
7	4.00 pm	44.2
8	6.00 pm	57.2

Method:-IS:9989-1981 (RA 2001)

NOTE: 1) CPCB Limit During Day time < 55. (Day time shall mean from 6.00 am to 10.00 pm.)

2) CPCB Limit During Night time < 45. (Night time shall mean from 10.00 pm to 6.00 am.)

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College of Science & Technology

ANALYSIS TEST REPORT

Sample Collection Date	10/05/2019	Analysis Completed On	24/05/2019
Sampling Point	Canteen		
Sample Details	Drinking Water		
Sample Container	PVC Can	Sample Quantity	5000 ml

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	pH	7.6	-	6.5 - 8.5	IS 3025 (Part-11): 2022
2	Colour	<5	CU	5.0	IS 3025 (Part-4/4): 2021
3	Odour	Agreeable	-	Agreeable	IS3025 (Part-5):2018:RA 2022
4	TDS	116	mg/lit	500	IS 3025 (Part-16):2023
5	Turbidity	<1.0	NTU	1.00	IS 3025 (Part-10): 1984:RA 2022
6	Ammonia	<0.5	mg/lit	0.5	IS 3025 (Part 34/2.2 & 2.3): 1988:RA 2019
7	Chlorides as Cl	13.4	mg/lit	250.00	IS 3025 (Part 32/2): 1988: RA 2019
8	Fluorides as F	0.6	mg/lit	1.0	APHA (24th Edition) 4500 F – D -
9	Residual Chlorine	<0.2	mg/lit	0.2	IS 3025 (P-26/5):2021
10	Nitrate as NO_3	11.2	mg/lit	45.00	APHA (24th Edition) 4500- NO_3-B -
11	Total Alkalinity as	46.8	mg/lit	200	IS 3025(Part23/8.1):1986: RA
12	Total Hardness as	54.2	mg/lit	200.00	IS 3025(Part21/5):2009: RA 2019
13	Sulphate as SO4	2.8	mg/lit	200.00	APHA (24th Edition) 4500 SO4 – E – 2022
14	Cyanide as CN	<0.05	mg/lit	0.05	IS 3025 (Part27/sec1/4) :2021
15	Calcium as Ca	12.4	mg/lit	75.00	IS 3025 (Part40/5):1991: RA 2019
16	Magnesium as	4.60	mg/lit	30.00	IS 3025 (Part 52-6):2003: RA 2019
17	Total Chromium	<0.01	mg/lit	0.05	IS 3025 (Part46/6):1994: RA 2019

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College of Science & Technology

SOLID WASTE MANAGEMENT

Aim :-

1) Scientific disposal of solid waste

2) Protection of human health and environment

Objective:-

1) To increase recycling level

2) To reduce organic waste in landfills

3) To control air, water, soil pollution

4) Production of green manure and vermicompost.

Activity / Observation :

Solid waste is separated as dry and wet. Dry waste includes plastic, glass, paper, metals, wood and related product. Wet waste typically refers to organic waste usually generated as canteen waste, plant debris. Dry waste is separated and it is given for its reuse and recycling to the recycler agency to avoid the pollution. Wet waste is also known as organic waste. It is obtain from canteen , fallen leaves , litter, ort, trash etc. produce in this campus if it is not disposed properly it creates air pollution, to avoid this we have implemented solid organic waste management activity, we run it at two level one is decomposition of solid waste through the composting in pit, vermicompost form solid organic waste and second is training to the students, farmers about production of organic manure like vermicompost, production of mushroom from the solid organic agricultural waste which ultimately conversion of Best from Waste, further the best biofertilizer is used for plants of college campus which enhances greenery leads environment clean and fresh.

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

ENVIRONMENT AWARENESS PROGRAM

Aim and objective:

- To plan, organize and implement programmes like landscape and plantation, water management & conservation, and rain water harvesting.
- To provide education that prepares students for leadership and social responsibility teaching them to think and communicate effectively and develop a global awareness.
- To introduce environmental education programmes for strengthen the existing ecological and environment related training infrastructure.
- To organize training programmes for vocationalisation of environmental careers.
- To strengthen Global Environmental Education Programmes for standardization of greening activities.
- To introduce environmental education programmes in strengthen the existing ecological and environment related training infrastructure.
- To make special plans for the studies vermiculture, plantation, nursery development, water & energy conservation and management, rain water harvesting and other related fields.
- To provide environmental education that prepares students for leadership and social responsibility by teaching them to think and communicate effectively and develop global environmental awareness and sensitivity.

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Ventilation and Indoor Air Quality (IAQ) :

- There is adequate size of windows in college class rooms as well as in corridor which allow sufficient light and ventilation.
- Corridors are wide with good ceiling height
- Classrooms also have high ceiling with wide doors. Windows are kept open to receive sunlight.
- All classrooms are provided with ceiling fans for proper air circulation.

Water Efficiency & Wastewater Management:

- Two RO filtration plant has been installed on main building to provide clean drinking water in campus.
- No water leakage observed anywhere in Campus.
- The students have awareness for water conservation.

Energy Efficiency:

- All the CRT monitors of computers have been replaced with LED monitors.
- Computers are kept switched off when not required to operate.
- Save energy posters/stickers such as "Switch off all electrical equipment's when not required to use" at maximum locations to spread energy conservation awareness.
- All conventional incandescent tube lights are replaced with LED tube lights.

Ambiance and Acoustic Control:

- Tree plantation in and around the campus help in reducing ambient temperature and acoustic control.
- The college is located away from road side so there is no major noise pollution.

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Waste Management:

Paper waste

- Being academic institution, waste paper is the main solid waste generated in the premises. The institution has taken steps to minimize usage of papers by implementing e-notice board.
- Both sides of the pages are utilized to avoid excess paper usages.
- Paper wastes are not directly disposed off in dustbin, it is given to local vendors for recycling and reuse.

e-waste

- The college has taken initiative to segregate and collect e-wastes and stored at designated place for its proper disposal.

Canteen and Solid Waste Management

- Wet and dry wastes are segregated in college canteens and directly handed over to the concern Municipal Corporation for disposal.
- Bio-degradable and non-biodegradable waste is generated labs, are also segregated and disposed of through Municipal Corporation

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Dharitree Enviro Research Centre
THANE

(Term of validity)
June, 1st 2021 - May, 31st 2023

Date of Issue: 6th June 2021

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

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RESEARCH CENTRE

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Pune Vidyarthi Griha's
College of Science & Technology

ENVIRONMENTAL AUDIT REPORT

(2021 – 2023)

For Dharitree Enviro Research Centre

Salaskar

Proprietor

Preface....

Pune Vidyarthi Griha's College of Science & Technology aims at producing awareness about the environment consciousness. The Institute takes initiatives to organize different events of green practices to percolate the knowledge amongst students, teachers, and nonteaching staff. This green message being transferred along with its practical dimensions among the families, societies and thereby to the stakeholders, forms a chain and network to spread the message at large. College is also aimed at giving solution to the different burning topics related to the environment, its awareness as well as its protection. As the government is taking initiative to sensitize mass with environment protection, newer concepts are being introduced to make college eco-friendly. To create and conserve the environment within the campus and to so..e the environmental problems such as promotion of the energy savings, energy conservation, water reduction, water harvesting, solid waste management, improvement in the air quality of the campus, control on noise pollution, and minimizing the use of Plastic, etc. is one of the prime objectives of the college.

Environment audit report is one such initiative that has been introduced to make the educational institute environmentally sustainable and active in spreading the education about the same. It is a tool to assess general practices implemented by the organization in terms of the impact on environment. The report also aims to spread the awareness on the adverse practices that are responsible for the degradation of the environment and how strongly the institute is involved in curtailing those practises. It helps in recognizing the need of a college to work around the year for environment sustainability. Thus, Environment audit forms the base line survey to decide for the green policy.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Acknowledgement....

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Coordinator, Green Audit Report

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Dr. Ajay Kumar Pathak
I/c Principal

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

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I/C Principal
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College of Science & Technology

ENVIRONMENTAL AUDIT REPORT COMMITTEE

(2021 – 2023)

Sr.No.	Name	Designation	Committee Role	Signature
1	Dr. Ajay Kumar Pathak	I/C Principal	Coordinator	
2	Dr. Pramod Salaskar	Dharitree Enviro Research Centre	External Auditor	
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4	Prof. Sita Nadar	Asst. Professor	Internal Auditor	
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6	Prof. Archana Bhosale	Asst. Professor	Internal Auditor	

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1. It would help to protect the environment in and around the campus.
2. 2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Empower the organization to frame a better environmental performance.
4. It portrays good image of institution through its clean and green campus. Finally, it will help to build positive impression for through green initiatives the upcoming NAAC visit

OBJECTIVE AND SCOPE:

1. Environmental education through systematic environmental management approach
2. Improving environmental standards
3. Benchmarking for environmental protection initiatives
4. Sustainable use of natural resource in the campus.
5. Financial savings through a reduction in resource use
6. Curriculum enrichment through practical experience
7. Development of ownership, personal and social responsibility for the College campus and its environment
8. Enhancement of College profile
9. Developing an environmental ethic and value systems in young people

EXECUTIVE SUMMARY:

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance. This audit report contains observations and recommendations for improvement of environmental consciousness.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

NEED FOR ENVIRONMENT AUDITING:

Environment auditing is the process of identification and determination of the institution's practices in creating awareness and practising the environment friendly measures. Over the period of time over exploitation of resources like energy, water, etc. have resulted in the environmental degradation. It is necessary to check whether our way of living and handling resources is not going to cause detrimental effects in our surroundings. Environment audit Report aims at summarising the college's contribution and its activeness in creating awareness and consciousness in practically applying the environmentally friendly measures towards an institute.

GOALS OF ENVIRONMENT AUDIT:

1. Identification and documentation of environment practices followed by university.
2. Identify strength and weakness in environment practices.
3. Analyse and suggest solution for problems identified.
4. Assess facility of different types of waste management.
5. Increase environmental awareness throughout campus
6. Identify and assess environmental risk.
7. Motivates staff for optimized sustainable use of available resources.
8. The long-term goal of the environmental audit program is to collect baseline data of environmental parameters and resolve environmental issue before they become problem.

OBJECTIVES OF ENVIRONMENT AUDIT:

1. To examine the current practices, which can impact on environment such as of resource utilization, waste management etc.
2. 2. To identify and analyse significant environmental issues.
3. Setup goal, vision, and mission for environment practices in campus.
4. Establish and implement Environment Management in various departments.
5. Continuous assessment for betterment in performance in environment

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Location:

Pune Vidyarthi Griha's College of Science & Technology located at CTS No. 218, Br. Nath Pai Nagar, Ghatkopar-E Ghatkopar (East) Mumbai-400077, Maharashtra, India.

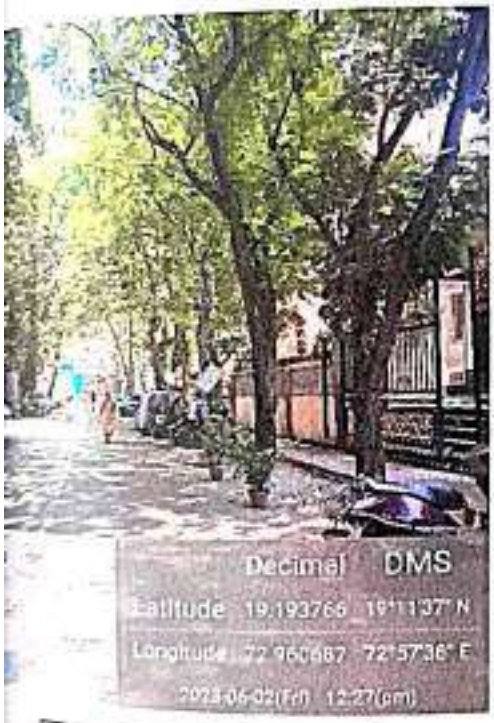
Figure. Schematic representation of Vidya Bhavan Campus

Country	India
State	Maharashtra
District	Mumbai
City	Mumbai
Area	Ghatkopar East
Elevation	20 meters
Population	**Population (2020):** 146056 **Male Population:** 76084 **Female Population:** 69972
Area Code	+91 – 022
Official Languages	Marathi, English
College Campus area:	Approximately 9,586.65q. meter
Perimeter	Approximately 467.3 meter
Location:	19°04.197'N; 72°54.236'E

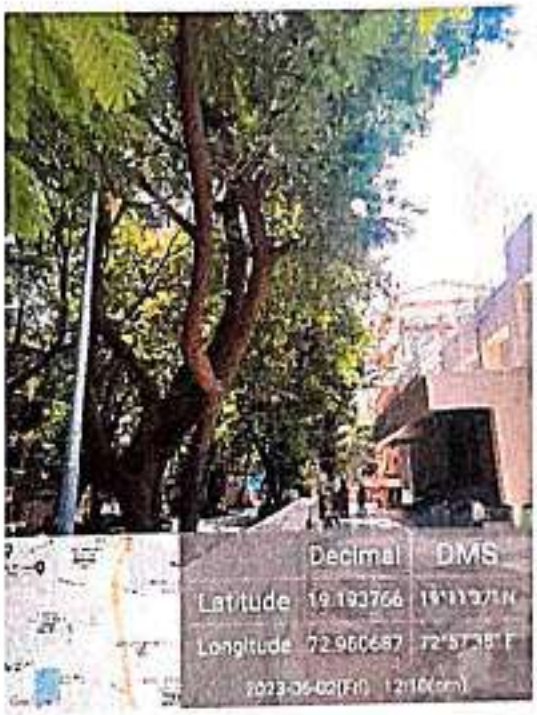
I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Sports facilities at premises

Green Belt



Approach Road to College



Green Belt in College Premises

For Dharitree Enviro Research Centre

Proprietor

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

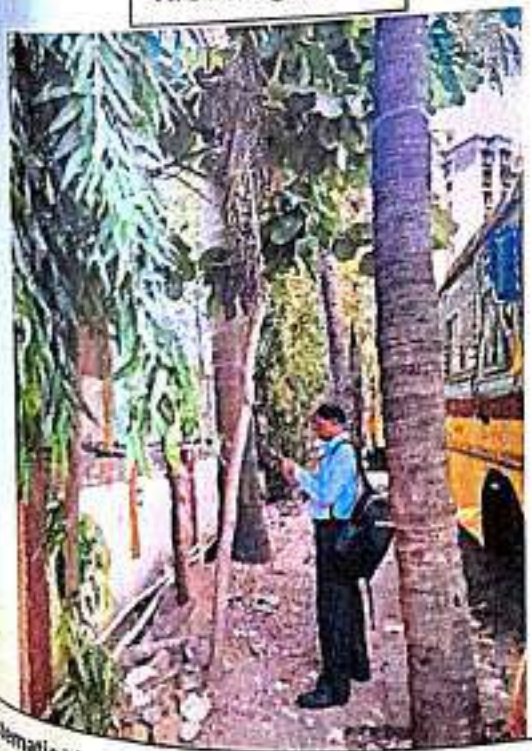
Recommendations:

- CFL lamps can be used in all sections to minimize the usage of fluorescent tubes
- Waste water management still needs to be practiced and designed in the campus.
- Drips and sprinklers can be used for watering the gardens and lawns.
- Roof top rain water harvesting can be designed and constructed.
- Special days like, Teachers Day, Guru Poornima, van Mahotsav can be celebrated by plant donations.
- E-waste segregation, handling and disposal can be deployed at the campus.

PHOTO GALLERY

Fire Extinguishers

Plastic Waste Segregation Bin



Systematic Identification and Geo-Tagging of the flora

Environmental Education program

I/C Principal
Pune Vidyarthi Griha's College of Science & Technology

CERTIFICATE OF ENVIRONMENTAL AUDIT

This is to certify that

Pune Vidyarthi Griha's College of Science & Technology

(Affiliated to University of Mumbai)

Located at CTS No. 218, Br. Nath Pai Nagar,
Ghatkopar (E) Mumbai

Has successfully undergone for Environmental Audit to establish Eco-friendly practices for conservation of environment at all stages. The environmental awareness initiatives taken by the college are substantial to meet all the standards for maintaining a sustainable environment in the college premises.

(Term of validity)
June, 1st 2021 - May, 31st 2023

Date of Issue: 6th June 2021

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

For Dharitree Enviro Research Centre

Proprietor

AMBIENT NOISE LEVEL MONITORING		
Date Of Monitoring: **03.02.2023**		
Sampling Location: 50 Meter from Main Gate		
Sr. No.	**Time**	**Noise Levels in dB(A) Leq***
1	8.00 am	44.7
2	9.00 am	46.4
3	10.00 am	59.8
4	11.00 am	54.3
5	12.00 am	51.2
6	2.00 pm	49.8
7	4.00 pm	56.1
8	6.00 pm	58.4

Method: -IS:9989-1981 **(RA 2001)**

NOTE: 1) CPCB Limit During Day time < 55. (Day time shall mean from 6.00 am to 10.00 pm.)

2) CPCB Limit During Night time < 45. (Night time shall mean from 10.00 pm to 6.00 am.)

For Dharitree Enviro Research Centre

Malavre

Proprietor

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

AMBIENT AIR STATION

Date Of sampling	06/01/2023	Analysis Completed on	13/01/2023
Location of H.V.S.	Approx. 50 meters from Main Gate		
Lateral Distance	50 Meter from Main Gate		
Receptor Distance	1.5 Meters from Ground Level		
Ambient Temperature (°C)	26	Humidity (%)	45
Wind Speed (km/hr)	09	Wind Direction (deg°)	W 280
Instruments Used	R.D.S. (APM- 460), F.P.S. (APM – 550), G.P.S. (APM – 411) & Benzene Sampler (GTI-177)		

POLLUTIONAL PARAMETERS

Parameters	Result	Units	NAAQS Limits	Method
PM_{10}	68	µg/m³	100.00	IS 5182 (Part 23): 2006 (RA 2022)
$PM_{2.5}$	33	µg/m³	60.00	EPA Quality assurance guidance document 2.12, based on CPCB- 2011
SO_2	16	µg/m³	80.00	IS 5182 (Part 2): 2001 (RA 2022)
NO_2	22	µg/m³	80.00	IS 5182 (Part 6): 2006 (RA 2022)
Ammonia (NH_3)	<20	µg/m³	400.00	CPCB Guidelines for Measurement of Ambient Air Pollutants Volume-I ,2011
CO	0.97	mg/m³	04.00	IS 5182 (Part 10): 1999 (RA 2019)
Lead as Pb	<0.1	µg/m³	01.00	EPA compendium method IO 3.5:2012
Benzene (C_6H_6)	< 4	µg/m³	5.00	IS 5182 (Part 11) :2006 (RA 2022)
Arsenic (As)	< 5	ng/m³	6.00	EPA compendium method IO 3.5:2012
Nickel (Ni)	< 5	ng/m³	20.00	EPA compendium method IO 3.5:2012
Ozone (O_3)	14	µg/m³	180.00	IS 5182 (Part 9): 1974 RA 2019
Benzo(a)Pyrene	< 0.1	ng/m³	1.00	IS 5182 (Part 12): 2004 (RA 2019)

NOTE: 1) The above results relate only to the item tested & the condition prevailing at the time of sampling

2) PM_{10}-Particulate Matter of size < 10 µm, $PM_{2.5}$ - Particulate Matter of size < 2.5 µm

3) NAAQS-National Ambient Air Quality Standards

4) Lower Detection Limit (NH_3 <20 µg/m³), (Pb <0.10 µg/m³), (C_3H_6 <4 µg/m³), (As <5 ng/m³), (Ni <5 ng/m³), (Benzo(a)Pyrene < 0.1 ng/m³)

For Diaritree Enviro Research Centre

Proprietor

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Table: Lepidopteran diversity observed in the College Campus

Sr. No.	Common Name	Scientific Name	Family	Status
1	Common Jay	Graphium doson	Papilionidae	C
2	Lime Butterfly	Papilio demoleus	Papilionidae	VC
3	Common Mormon	Papilio polytes	Papilionidae	VC
4	Common Wanderer	Pareronia valeria	Pieridae	C
5	Common Grass Yellow	Eurema hecabe	Pieridae	VC
6	Small Grass Yellow	Eurema brigitta	Pieridae	C
7	Plain Tiger	Danaus chrysippus	Nymphalidae	VC
8	Common Indian Crow	Euploea core	Nymphalidae	VC
9	Common Sailer	Neptis hylas	Nymphalidae	VC
10	Common Pierrot	Castalius rosimon	Lycaenidae	VC

C: Common, VC: Very Common

Vidyarthi Griha's College of Science & Technology

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College of Science & Technology

Table 2: Avifaunal diversity observed immediate surroundings of the College Cam

	Family	Scientific Name	Common Name	IUCN Status	IWPA Assessment	Feeding Habit	Dwelling Status
	Corvidae	*Corvus splendens*	House Crow	Least Concern ver 3.1	Schedule - V	Omnivorous	R
		Corvus macrorhynchos	Jungle Crow	Least Concern ver 3.1	--	Omnivorous	R
	Pycnonotidae	*Pycnonotus cafer*	Red Vented Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
		Pycnonotus jocosus	Red Whiskered Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
	Meropidae	*Merops orientalis*	Small Bee Eater	Least Concern ver 3.1	--	Insectivorous	R
	Halcyonidae	*Halcyon smyrnensis*	White-throated Kingfisher	Least Concern ver 3.1	Schedule -IV	Piscivorous & Insectivorous	R
	Columbidae	*Streptopelia chinensis*	Spotted Dove	Not Assessed	Schedule -IV	Granivorous	R
		Columba livia	Blue Rock Pigeon	Least Concern ver 3.1	--	Granivorous	R
	Leiothrichidae	*Turdoides striatus*	Jungle Babbler	Least Concern ver 3.1	Schedule -IV	Omnivorous	R
	Dicruridae	*Dicrurus macrocercus*	Black Drongo	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
	Sturnidae	*Acridotheres tristis*	Common Myna	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
	Muscicapidae	*Copsychus saularis*	Oriental Magpie-Robin	Least Concern ver 3.1	--	Insectivorous & Herbivorous	R
	Cuculidae	*Centropus sinensis*	Greater Coucal	Least Concern ver 3.1	Schedule -IV	Carnivorous	R

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Table: Species wise count of trees

Sr. No.	Botanical Name	Local Name	Family	Native/ Introd. / Nt.	Vegetation type	Individual plants
1	*Aegle marmelos*	Bel	Rutaceae	Native	Deciduous	1
2	*Annona squamosa*	Sitaphal	Annonaceae	Nt	Evergreen	3
3	*Artocarpus heterophyllus*	Phanus	Moraceae	Native	Evergreen	1
4	*Azadirachta indica*	Neem	Meliaceae	Native	Evergreen	2
5	*Bombax ceiba*	Katesavar	Malvaceae	Native	Deciduous	1
6	*Carica papaya*	Pappayi	Caricaceae	Native	Evergreen	1
7	*Cocos nucifera*	Naral	Arecaceae	Native	Evergreen	47
8	*Delonix regia*	Gulmohar	Caesalpiniaceae	Nt	Evergreen	1
9	*Dypsis lutescens*	Areca palm	Arecaceae	Nt	Evergreen	1
10	*Eucalyptus grandis*	Neelgiri	Myrtaceae	Nt	Evergreen	3
11	*Ficus benghalensis*	Vad	Moraceae	Native	Evergreen	1
12	*Ficus racemosa*	Umber	Moraceae	Native	Evergreen	3
13	*Hyophorbe lagenicaulis*	Bottle Palm	Arecaceae	Nt	Evergreen	7
14	*Mangifera indica*	Amba	Anacardiaceae	Native	Evergreen	4
15	*Moringa oleifera*	Shevga	Moringaceae	Native	Deciduous	1
16	*Murraya koenigii*	Kaddi patta	Rutaceae	Native	Deciduous	1
17	*Neolamarckia cadamba*	Kadamb	Rubiacea	Native	Evergreen	1
18	*Peltophorum pterocarpum*	Sonmohar	Caesalpiniaceae	Introd	Evergreen	3
19	*Plumeria obtusa*	Chapha	Apocynaceae	Introd	Evergreen	1
20	*Polyalthia longifolia*	Ashoka	Annonaceae	Native	Evergreen	14
21	*Pongamia pinnata*	Karanj	Fabaceae	Native	Deciduous	1
22	*Tectona grandis*	Sagwan	Verbenaceae	Native	Deciduous	18
23	*Terminalia catapa*	Deshibadam	Combretaceae	Native	Deciduous	6
					Total	122

I/C Princ
Pune Vidyarthi Griha's
College of Science & Technology

Waste Management:

Paper waste

- Being academic institution, waste paper is the main solid waste generated in the premises. The institution has taken steps to minimize usage of papers by implementing e-notice board.
- Both sides of the pages are utilized to avoid excess paper usages.
- Paper wastes are not directly disposed off in dustbin, it is given to local vendors for recycling and reuse.

e-waste

- The college has taken initiative to segregate and collect e-wastes and stored at designated place for its proper disposal.

Canteen and Solid Waste Management

- Wet and dry wastes are segregated in college canteens and directly handed over to the concern Municipal Corporation for disposal.
- Bio-degradable and non-biodegradable waste is generated labs, are also segregated and disposed of through Municipal Corporation

Summary:

Environment Audit is one of the important tools to check the balance of natural resources and its judicial use. Environment auditing is the process of identifying and determining whether institutional practices are eco-friendly and sustainable. It is a process of regular identification, quantification, documenting, reporting and monitoring of environmentally important components in a specified area. College has conducted a "Environment Audit" in the academic year 2023. The main objective to carry out environment audit is to check the Green practices followed by college and to conduct a well-defined audit report to understand whether the Institute is on the track of sustainable development.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Water Efficiency & Wastewater Management:

- Two RO filtration plant has been installed on main building to provide clean drinking water in campus.
- No water leakage observed anywhere in Campus.
- The students have awareness for water conservation.

Energy Efficiency:

- All the CRT monitors of computers have been replaced with LED monitors.
- Computers are kept switched off when not required to operate.
- Save energy posters/stickers such as "Switch off all electrical equipment's when not required to use" at maximum locations to spread energy conservation awareness.
- All conventional incandescent tube lights are replaced with LED tube lights.

Ambiance and Acoustic Control:

- Tree plantation in and around the campus help in reducing ambient temperature and acoustic control.
- The college is located away from road side so there is no major noise pollution.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

ENVIRONMENT AWARENESS PROGRAM

Aim and objective:

- To plan, organize and implement programmes like landscape and plantation, water management & conservation, and rain water harvesting.
- To provide education that prepares students for leadership and social responsibility teaching them to think and communicate effectively and develop a global awareness.
- To introduce environmental education programmes for strengthen the existing ecological and environment related training infrastructure.
- To organize training programmes for vocationalisation of environmental careers.
- To strengthen Global Environmental Education Programmes for standardization of greening activities.
- To introduce environmental education programmes in strengthen the existing ecological and environment related training infrastructure.
- To make special plans for the studies vermiculture, plantation, nursery development, water & energy conservation and management, rain water harvesting and other related fields.
- To provide environmental education that prepares students for leadership and social responsibility by teaching them to think and communicate effectively and develop global environmental awareness and sensitivity.

Ventilation and **Indoor Air Quality (IAQ):**

- There is adequate size of windows in college class rooms as well as in corridor which allow sufficient light and ventilation.
- Corridors are wide with good ceiling height
- Classrooms also have high ceiling with wide doors. Windows are kept open to receive sunlight.
- All classrooms are provided with ceiling fans for proper air circulation.

I/C Principal
Pune Vidyarthi Griha
College of Science & Tech...

SOLID WASTE MANAGEMENT

Aim: -

1] Scientific disposal of solid waste

2] Protection of human health and environment

Objective: -

1] To increase recycling level

2] To reduce organic waste in landfills

3] To control air, water, soil pollution

4] Production of green manure and vermicompost.

Activity / Observation:

Solid waste is separated as dry and wet. Dry waste includes plastic, glass, paper, metals, wood and related product. Wet waste typically refers to organic waste usually generated as canteen waste, plant debris. Dry waste is separated and it is given for its reuse and recycling to the recycler agency to avoid the pollution. Wet waste is also known as organic waste. It is obtain from canteen , fallen leaves , litter, ort, trash etc. produce in this campus if it is not disposed properly it creates air pollution, to avoid this we have implemented solid organic waste management activity, we run it at two level one is decomposition of solid waste through the composting in pit, vermicompost form solid organic waste and second is training to the students, farmers about production of organic manure like vermicompost, production of mushroom from the solid organic agricultural waste which ultimately conversion of Best from Waste, further the best biofertilizer is used for plants of college campus which enhances greenery leads environment clean and fresh.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

ANALYSIS TEST REPORT

Sample Collection Date	17/03/2023	Analysis Completed on	18/03/2023
Sampling Point	Canteen		
Sample Details	Drinking Water		
Sample Container	PVC Can	Sample Quantity	5000 ml

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500) (As	Method
1	pH	7.4	-	6.5 - 8.5	IS 3025 (Part-11): 2022
2	Colour	<5	CU	5.0	IS 3025 (Part-4/4): 2021
3	Odour	Agreeable	-	Agreeable	IS3025 (Part-5):2018:RA 2022
4	TDS	112	mg/lit	500	IS 3025 (Part-16):2023
5	Turbidity	<1.0	NTU	1.00	IS 3025 (Part-10): 1984:RA 2022
6	Ammonia	<0.5	mg/lit	0.5	IS 3025 (Part 34/2.2 & 2.3): 1988:RA 2019
7	Chlorides as Cl	15.6	mg/lit	250.00	IS 3025 (Part 32/2): 1988: RA 2019
8	Fluorides as F	0.8	mg/lit	1.0	APHA (24th Edition) 4500 F – D -
9	Residual Chlorine	<0.2	mg/lit	0.2	IS 3025 (P-26/5):2021
10	Nitrate as NO_3	10.4	mg/lit	45.00	APHA (24th Edition) 4500- NO_3-B -
11	Total Alkalinity as	48.37	mg/lit	200	IS 3025(Part23/8.1):1986: RA
12	Total Hardness as	58.00	mg/lit	200.00	IS 3025(Part21/5):2009: RA 2019
13	Sulphate as SO4	3.6	mg/lit	200.00	APHA (24th Edition) 4500 SO4 – E – 2022
14	Cyanide as CN	<0.05	mg/lit	0.05	IS 3025 (Part27/sec1/4) :2021
15	Calcium as Ca	14.43	mg/lit	75.00	IS 3025 (Part40/5):1991: RA 2019
16	Magnesium as	5.34	mg/lit	30.00	IS 3025 (Part 52-6):2003: RA 2019
17	Total Chromium	<0.01	mg/lit	0.05	IS 3025 (Part46/6):1994: RA 2019

For Dharitree Enviro Research Centre

Proprietor

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Acknowledgement....

We take this opportunity to express our gratitude towards the president of the Institute, Hon. President, **Shri. Sunil Redekar** and Hon. Secretary of College Development Committee **Dr. Rajendar Kambale,** & Hon. Director **Shri. Rajendra Borade** and all Hon. Members of the CDC committee of the college for their valuable guidance, continuous encouragement, generous gift of time with constructive critism & suggestion during the composition of work of entire," Green Audit Report- 2023".

We also express our deep sense of gratitude to our Hon. Principal, Dr **Ajay Kumar Pathak,** who inspired and encouraged us throughout the work. We gratefully acknowledge the help provided by him on several occasions.

It is right time to express our deep sense of gratitude to our college Prof. Meena Patel, Prof. Sita Nadar, Prof. Gaurav Singh for their continuous help, inspiring resoluteness and sensible suggestion without any reservation whenever we approached throughout investigation.

We are thankful to **Dr. B.G Kulkarni** for his valuable guidance.

We are equally thankful to our colleagues' teachers and students of B.Sc. Cs/B.Sc. IT B.com/ BMS which helps during data collection and identification of plants.

Coordinator, Green Audit Report

1/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

troduce....

The term "Green" means eco-friendly or not damaging the environment. "Green Auditing", n umbrella term, is known by another name „Environmental Auditing". In auditing literature ten the terms are being used interchangeably. To implement the green audit other portant aspects such as objective of green audit, drivers of green audit, future scope, benefits, and advantages are necessary to understand.

ncept of green audit is not limited to the decorating the college campus but also corporate sponsibility, with quality education keep college environment eco-friendly with its facilities. ttempt has been made on that direction by landscaping and plantation, solid waste nagement, recycling of waste water, conservation of energy, water conservation, ainwater harvesting and minimum of usage of paper.

th keeping this view our campus is clean and fresh, we try to inculcate value of surrounding vironment amongst the students through Environmental awareness activities like nature ub, NSS", Quiz competition on environment, Flower Arrangement, Gardening development nd nursery management course, Mushroom cultivation course, Production of ermicomposting from solid waste and activity like Competition on Preparation of „Best from aste", preparation of trenches and plantation of tree sapling on „ Green sunrise hill", greenery of the campus is maintaining by the student of Zoology and Botany departments. Because of the greenery and eco-friendly sustainable environment, college campus becomes more charming, refreshing and healthier. This increases efficiency of every element of the college.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

CERTIFICATE OF ENVIRONMENTAL AUDIT

This is to certify that

Pune Vidyarthi Griha's College of Science & Technology

(Affiliated to University of Mumbai)

Located at CTS No. 218, Br. Nath Pai Nagar,
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Dharitree Enviro Research Centre THANE

(Term of validity)
June, 1st 2023 - May, 31st 2025

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Date of Issue: 10th June 2023

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

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Pune Vidyarthi Griha's College of Science & Technology

ENVIRONMENTAL AUDIT REPORT

(2023 – 2025)

For Dharitree Enviro Research Centre

salaskar

Proprietor

Preface....

Pune Vidyarthi Griha's College of Science & Technology aims at producing awareness about the environment consciousness. The institute takes initiatives to organize different events of green practices to percolate the knowledge amongst students, teachers, and non-teaching staff. This green message being transferred along with its practical dimensions among the families, societies and thereby to the stakeholders, forms a chain and network to spread the message at large. College is also aimed at giving solution to the different burning topics related to the environment, its awareness as well as its protection. As the government is taking initiative to sensitize mass with environment protection, newer concepts are being introduced to make college eco-friendly. To create and conserve the environment within the campus and to solve the environmental problems such as promotion of the energy savings, energy conservation, water reduction, water harvesting, solid waste management, improvement in the air quality of the campus, control on noise pollution, and minimizing the use of Plastic, etc. is one of the prime objective of the college.

Environment audit report is one such initiative that has been introduced to make the educational institute environmentally sustainable and active in spreading the education about the same. It is a tool to assess general practices implemented by the organization in terms of the impact on environment. The report also aims to spread the awareness on the adverse practices that are responsible for the degradation of the environment and how strongly the institute is involved in curtailing those practices. It helps in recognizing the need of a college to work around the year for environment sustainability. Thus, Environment audit forms the base line survey to decide for the green policy.

Acknowledgement....

We take this opportunity to express our gratitude towards the president of the Institute, Hon. President, **Shri. Sunil Redekar** and Hon. Secretary of College Development Committee, **Dr. Rajendra Kamble,** & Hon. Director **Shri. Rajendra Borhade** and all Hon. Members of the CDC committee of the college for their valuable guidance, continuous encouragement, generous gift of time with constructive critism & suggestion during the composition of work of entire," Environmental Audit Report- 2023-25".

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We are thankful to **Dr. B.G Kulkarni** for his valuable guidance.

We are equally thankful to our colleagues teachers and students of B.Sc CS/B.Sc. IT B.com/ BMS which helps during data collection and identification of plants.

Coordinator,

Environmental Audit Report

Principal Message....

I express my hearty wishes for success of this publication of 'Environmental Audit 2023-2025'.

Efforts made by our institution and senior college for the protection of environment and biodiversity conservation is really unique, which may become pilot project gives message about to avoid the for coming natural disaster like global warming, land sliding etc. We try to maintain environment eco-friendly through activities like landscaping and plantation, rain water harvesting, solid waste Management, energy conservation,

e-waste management, and paperless technology to minimize the use of paper basically prepare from the plants.

The ultimate aim of our institution to develop youth as fertile probe who understand for their social responsibilities.

I express my hearty wishes for success of this movement of Environmental Audit Report for the new beginning of the conservation from the doorstep of the people.

Our Environmental audit reflects assessment and achievement of vision and mission of the college.

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ENVIRONMENTAL AUDIT REPORT COMMITTEE

(2021 – 2023)

Sr.No.	Name	Designation	Committee Role	Signature
1	Dr. Ajay Kumar Pathak	I/C Principal	Coordinator	
2	Dr. Pramod Salaskar	Dharitree Enviro Research Centre	External Auditor	
3	Prof. Meena Patel	Asst. Professor	Internal Auditor	
4	Prof. Jayshri Borhade	Asst. Professor	Internal Auditor	
5	Prof. Gaurav Singh	Asst. Professor	Internal Auditor	
6	Prof. Archana Bhosale	Asst. Professor	Internal Auditor	

CERTIFICATE OF ENVIRONMENTAL AUDIT

This is to certify that

Pune Vidyarthi Griha's College of Science & Technology

(Affiliated to University of Mumbai)

Located at CTS No. 218, Br. Nath Pai Nagar,
Ghatkopar (E) Mumbai

Has successfully undergone for Environmental Audit to establish Eco-friendly practices for conservation of environment at all stages. The environmental awareness initiatives taken by the college are substantial to meet all the standards for maintaining a sustainable environment in the college premises.

(Term of validity)
June, 1st 2023 - May, 31st 2025

Date of Issue: 10th June 2023

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

History:

An education only can provide, the stability, and one could gain name and fame in the society, an education is a wealth and becomes a treasure to the ones, who do not have money, and to the ones, who have a clever brain and ambitions in mind. "Anath Vidyarthi Griha" came into existence in the year 1909 on May 12th, having the same motto and with the aspiration to educate the poor and destitute needy children. There were many of the students, who used to work hard and some of them would get the charitable offerings from the society, but there was not a home or shelter for them and even a school where they would get an education. Eventually, this task was shouldered idealistically by "Pune Vidyarthi Griha".

The Pune Vidyarthi Griha's College of Science & Technology is affiliated to Mumbai University & managed by Pune Vidyarthi Griha's [PVG] formerly called as "Pune Anath Vidyarthi Griha's". Pune Anath Griha's was established in 1909 Kul guru Dada Saheb Ketkar for imparting school education to the students for weaker section of the society. Initially till 1969 it was called as Pune Ananth Vidyarthi Griha's. Since 1969 it was called as a Pune Vidyarthi Griha's as suggested by the Dr. Nana Saheb Parudekar than editor of Sakal Marathi newspaper published from Pune the beginning has focused on school education & for school Maharashtra Vidyalaya was founded in 1921, Later on realizing the need of higher education institution PVG started higher education institution in Printing technology, Engineering and Management. At present PVG has campuses located at Pune and Nashik & Mumbai where more than 20,000 students take education right from school to higher education.

The Pune Vidyarthi Griha's College of Science & Technology was established in the year 2008. It is Affiliated to University of Mumbai and Recognized by Govt. of Maharashtra in 2008. Initially the permission was granted only for B. Sc. Information Technology & B.Sc. Computer Science Course. Observing the excellence of the college, the University granted the permission to the college to start B.com, BMS & BBI course in the year 2017 – 18.

Location:

Pune Vidyarthi Griha's College of Science & Technology located at CTS No. 218, Br. Nath Pai Nagar, Ghatkopar-E Ghatkopar (East) Mumbai-400077, Maharashtra, India.

Figure. Schematic representation of Vidya Bhavan Campus

Country	India
State	Maharashtra
District	Mumbai
City	Mumbai
Area	Ghatkopar East
Elevation	20 meter
Population	Population (2020): 146056
	Male Population: 76084 Female Population: 69972
Area Code	+91 – 022
Official Languages	Marathi, English
College Campus area:	Approximately 9,586.6Sq. meter
Perimeter	Approximately 467.3 meter
Location:	19°04.197'N; 72°54.236'E

NEED FOR ENVIRONMENT AUDITING:

Environment auditing is the process of identification and determination of the institution's practices in creating awareness and practising the environment friendly measures. Over the period of time over exploitation of resources like energy, water, etc. have resulted in the environmental degradation. It is necessary to check whether our way of living and handling resources is not going to cause detrimental effects in our surroundings. Environment audit Report aims at summarising the college's contribution and its activeness in creating awareness and consciousness in practically applying the environmental friendly measures towards an institute.

GOALS OF ENVIRONMENT AUDIT:

Identification and documentation of environment practices followed by university.

2. Identify strength and weakness in environment practices.
3. Analyze and suggest solution for problems identified.
4. Assess facility of different types of waste management.
5. Increase environmental awareness throughout campus
6. Identify and assess environmental risk.
7. Motivates staff for optimized sustainable use of available resources.
8. The long-term goal of the environmental audit program is to collect baseline data of environmental parameters and resolve environmental issue before they become problem.

OBJECTIVES OF ENVIRONMENT AUDIT:

1. To examine the current practices, which can impact on environment such as of resource utilization, waste management etc.
2. 2. To identify and analyze significant environmental issues.
3. Setup goal, vision, and mission for environment practices in campus.
4. Establish and implement Environment Management in various departments.
5. Continuous assessment for betterment in performance in environment

BENEFITS OF ENVIRONMENT AUDIT TO EDUCATIONAL INSTITUTIONS:

1. It would help to protect the environment in and around the campus.
2. 2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Empower the organization to frame a better environmental performance.
4. It portrays good image of institution through its clean and green campus. Finally, it will help to build positive impression for through green initiatives the upcoming NAAC visit

OBJECTIVE AND SCOPE:

1. Environmental education through systematic environmental management approach
2. Improving environmental standards
3. Benchmarking for environmental protection initiatives
4. Sustainable use of natural resource in the campus.
5. Financial savings through a reduction in resource use
6. Curriculum enrichment through practical experience
7. Development of ownership, personal and social responsibility for the College campus and its environment
8. Enhancement of College profile
9. Developing an environmental ethic and value systems in young people

EXECUTIVE SUMMARY:

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance. This audit report contains observations and recommendations for improvement of environmental consciousness.

Table: Species wise count of trees

Sr. No.	Botanical Name	Local Name	Family	Native/ Introd. / Nt.	Vegetation type	No. of individuals plants
1	*Aegle marmelos*	Bel	Rutaceae	Native	Deciduous	1
2	*Annona squamosa*	Sitaphal	Annonaceae	Nt	Evergreen	3
3	*Artocarpus heterophyllus*	Phanus	Moraceae	Native	Evergreen	1
4	*Azadirachta indica*	Neem	Meliaceae	Native	Evergreen	2
5	*Bombax ceiba*	Katesavar	Malvaceae	Native	Deciduous	1
6	*Carica papaya*	Pappayi	Caricaceae	Native	Evergreen	1
7	*Cocos nucifera*	Naral	Arecaceae	Native	Evergreen	47
8	*Delonix regia*	Gulmohar	Caesalpiniaceae	Nt	Evergreen	1
9	*Dypsis lutescens*	Areca palm	Arecaceae	Nt	Evergreen	1
10	*Eucalyptus grandis*	Neelgiri	Myrtaceae	Nt	Evergreen	3
11	*Ficus benghalensis*	Vad	Moraceae	Native	Evergreen	1
12	*Ficus racemosa*	Umber	Moraceae	Native	Evergreen	3
13	*Hyophorbe lagenicaulis*	Bottle Palm	Arecaceae	Nt	Evergreen	7
14	*Mangifera indica*	Amba	Anacardiaceae	Native	Evergreen	4
15	*Moringa oleifera*	Shevga	Moringaceae	Native	Deciduous	1
16	*Murraya koenigii*	Kaddi patta	Rutaceae	Native	Deciduous	1
17	*Neolamarckia cadamba*	Kadamb	Rubiacea	Native	Evergreen	1
18	*Peltophorum pterocarpum*	Sonmohar	Caesalpiniaceae	Introd	Evergreen	3
19	*Plumeria obtusa*	Chapha	Apocynaceae	Introd	Evergreen	1
20	*Polyalthia longifolia*	Ashoka	Annonaceae	Native	Evergreen	14
21	*Pongamia pinnata*	Karanj	Fabaceae	Native	Deciduous	1
22	*Tectona grandis*	Sagwan	Verbenaceae	Native	Deciduous	18
23	*Terminalia catapa*	Deshibadam	Combretaceae	Native	Deciduous	6

		Total	122

TABLE . FLORAL DIVERSITY (TREE) OBSERVED IN THE COLLEGE CAMPUS

Tree No.	Botanical name	Local Name	Lat./Long (Location)
1	*Terminalia catapa*	Deshibadam	19°04.216'N ; 72°54.240'E
2	*Polyalthia longifolia*	Ashoka	19°04.216'N ; 72°54.238'E
3	*Terminalia catapa*	Deshibadam	19°04.216'N ; 72°54.238'E
4	*Dypsis lutescens*	Aareca Palm	19°04.215'N ; 72°54.223'E
5	*Polyalthia longifolia*	Ashoka	19°04.211'N ; 72°54.234'E
6	*Terminalia catapa L.*	Deshibadam	19°04.211'N ; 72°54.232'E
7	*Terminalia catapa L.*	Deshibadam	19°04.211'N ; 72°54.233'E
8	*Polyalthia longifolia*	Ashoka	19°04.210'N ; 72°54.232'E
9	*Terminalia catapa L.*	Deshibadam	19°04.197'N ; 72°54.223'E
10	*Cocos nucifera L.*	Naral	19°04.204'N ; 72°54.229'E
11	*Tectona grandis*	Sagwan	19°04.194'N ; 72°54.220'E
12	*Cocos nucifera L.*	Naral	19°04.193'N ; 72°54.219'E
13	*Tectona grandis*	Sagwan	19°04.193'N ; 72°54.217'E
14	*Cocos nucifera*	Naral	19°04.193'N ; 72°54.217'E
15	*Tectona grandis*	Sagwan	19°04.192'N ; 72°54.223'E
16	*Cocos nucifera*	Naral	19°04.193'N ; 72°54.215'E
17	*Tectona grandis*	Sagwan	19°04.193'N ; 72°54.217'E
18	*Mangifera indica L.*	Amba	19°04.185'N ; 72°54.213'E
19	*Tectona grandis*	Sagwan	19°04.185'N ; 72°54.213'E
20	*Neolamarckia cadamba*	Kadam	19°04.185'N ; 72°54.213'E
21	*Cocos nucifera*	Naral	19°04.183'N ; 72°54.213'E
22	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.216'E
23	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.219'E
24	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.212'E
25	*Hyophorbe lagenicaulis*	Bottle palm	19°04.183'N ; 72°54.214'E
26	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.211'E

27	*Tectona grandis*	Sagwan	19°04.182'N ; 72°54.218'E
28	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.227'E
29	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.222'E
30	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.225'E
31	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.219'E
32	*Polyalthia longifolia*	Ashoka	19°04.183'N ; 72°54.214'E
33	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.209'E
34	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.210'E
35	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.227'E
36	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
37	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
38	*Tectona grandis*	Sagwan	19°04.182'N ; 72°54.218'E
39	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.218'E
40	*Tectona grandis*	Sagwan	19°04.182'N ; 72°54.218'E
41	*Hyophorbe lagenicaulis*	Bottle palm	19°04.182'N ; 72°54.218'E
42	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.218'E
43	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
44	*Polyalthia longifolia*	Ashoka	19°04.183'N ; 72°54.227'E
45	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
46	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
47	*Annona squamosa*	Sitphal	19°04.184'N ; 72°54.226'E
48	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.226'E
49	*Ficus racemosa L.*	Umber	19°04.184'N ; 72°54.221'E
50	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.226'E
51	*Annona squamosa*	Sitphal	19°04.184'N ; 72°54.230'E
52	*Tectona grandis*	Sagwan	19°04.184'N ; 72°54.225'E
53	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.218'E
54	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.213'E
55	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.207'E
56	*Hyophorbe lagenicaulis*	Bottle palm	19°04.188'N ; 72°54.242'E

57	*Tectona grandis*	Sagwan	19°04.188'N ; 72°54.240'E
58	*Terminalia catapa L.*	Deshibadam	19°04.185'N ; 72°54.194'E
59	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.194'E
60	*Polyalthia longifolia*	Ashoka	19°04.186'N ; 72°54.194'E
61	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.197'E
62	*Hyophorbe lagenicaulis*	Bottle palm	19°04.184'N ; 72°54.269'E
63	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.269'E
64	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.271'E
65	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.276'E
66	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.283'E
67	*Mangifera indica L.*	Amba	19°04.185'N ; 72°54.294'E
68	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.194'E
69	*Tectona grandis*	Sagwan	19°04.185'N ; 72°54.194'E
70	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.194'E
71	*Artocarpus heterophyllus Lamk.*	Phanas	19°04.185'N ; 72°54.197'E
72	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.195'E
73	*Moringa oleifera*	Shevga	19°04.185'N ; 72°54.199'E
74	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.202'E
75	*Hyophorbe lagenicaulis*	Bottle palm	19°04.185'N ; 72°54.204'E
76	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.209'E
77	*Ficus racemosa L.*	Umber	19°04.185'N ; 72°54.213'E
78	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.218'E
79	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.223'E
80	*Delonix regia*	Gulmohar	19°04.185'N ; 72°54.225'E
81	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.229'E
82	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.234'E
83	*Hyophorbe lagenicaulis*	Bottle palm	19°04.185'N ; 72°54.237'E
84	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.239'E
85	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.241'E
86	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.243'E

87	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.247'E
88	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.247'E
89	*Aegle marmelos*	Bel	19°04.182'N ; 72°54.244'E
90	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.240'E
91	*Hyophorbe lagenicaulis*	Bottle palm	19°04.182'N ; 72°54.235'E
92	*Murraya koenigii*	Kadi Patta	19°04.184'N ; 72°54.253'E
93	*Peltophorum pterocarpum*	Sonmohar	19°04.190'N ; 72°54.270'E
94	*Bombax ceiba L.*	Katesavar	19°04.184'N ; 72°54.249'E
95	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.241'E
96	*Peltophorum pterocarpum*	Sonmohar	19°04.192'N ; 72°54.267'E
97	*Ficus benghalensis L.*	Vad	19°04.192'N ; 72°54.273'E
98	*Azadirachta indica*	Neem	19°04.192'N ; 72°54.273'E
99	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
100	*Azadirachta indica*	Neem	19°04.193'N ; 72°54.269'E
101	*Plumeria obtusa L.*	Chapha	19°04.193'N ; 72°54.268'E
102	*Carica papaya*	Pappayi	19°04.192'N ; 72°54.274'E
103	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
104	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
105	*Annona squamosa*	Sitphal	19°04.189'N ; 72°54.255'E
106	*Cocos nucifera L.*	Naral	19°04.198'N ; 72°54.264'E
107	*Tectona grandis*	Sagwan	19°04.200'N ; 72°54.112'E
108	*Cocos nucifera L.*	Naral	19°04.202'N ; 72°54.243'E
109	*Cocos nucifera L.*	Naral	19°04.202'N ; 72°54.245'E
110	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.206'E
111	*Mangifera indica L.*	Amba	19°04.200'N ; 72°54.203'E
112	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.176'E
113	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.189'E
114	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.192'E
115	*Ficus racemosa L.*	Umber	19°04.200'N ; 72°54.196'E
116	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.184'E

117	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.169'E
118	*Cocos nucifera L.*	Naral	19°04.206'N ; 72°54.282'E
119	*Pongamia pinnata*	Karanj	19°04.205'N ; 72°54.279'E
120	*Polyalthia longifolia*	Ashoka	19°04.207'N ; 72°54.223'E
121	*Peltophorum pterocarpum*	Sonmohar	19°04.208'N ; 72°54.237'E
122	*Polyalthia longifolia*	Ashoka	19°04.208'N ; 72°54.249'E

For Dharitree Enviro Research Centre

Proprietor

Table : Avifaunal diversity observed immediate surroundings of the College Campus

Sr. No.	Family	Scientific Name	Common Name	IUCN Status	IWPA Assessment	Feeding Habit	Dwelling Status
1	Corvidae	*Corvus splendens*	House Crow	Least Concern ver 3.1	Schedule - V	Omnivorous	R
2		*Corvus macrorhynchos*	Jungle Crow	Least Concern ver 3.1	--	Omnivorous	R
3	Pycnonotidae	*Pycnonotus cafer*	Red Vented Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
4		*Pycnonotus jocosus*	Red Whiskered Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
5	Meropidae	*Merops orientalis*	Small Bee Eater	Least Concern ver 3.1	--	Insectivorous	R
6	Halcyonidae	*Halcyon smyrnensis*	White-throated Kingfisher	Least Concern ver 3.1	Schedule -IV	Piscivorous & Insectivorous	R
7	Columbidae	*Streptopelia chinensis*	Spotted Dove	Not Assessed	Schedule -IV	Granivorous	R
8		*Columba livia*	Blue Rock Pigeon	Least Concern ver 3.1	--	Granivorous	R
9	Dicruridae	*Dicrurus macrocercus*	Black Drongo	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
10	Sturnidae	*Acridotheres tristis*	Common Myna	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
11	Muscicapidae	*Copsychus saularis*	Oriental Magpie-Robin	Least Concern ver 3.1	--	Insectivorous & Herbivorous	R
12	Cuculidae	*Centropus sinensis*	Greater Coucal	Least Concern ver 3.1	Schedule -IV	Carnivorous	R

For Dharitree Enviro Research Centre

Malaskar

Proprietor

Table: Lepidopteran diversity observed in the College Campus

Sr. No.	Common Name	Scientific Name	Family	Status
1	Common Jay	*Graphium doson*	Papilionidae	C
2	Lime Butterfly	*Papilio demoleus*	Papilionidae	VC
3	Common Mormon	*Papilio polytes*	Papilionidae	VC
4	Common Grass Yellow	*Eurema hecabe*	Pieridae	VC
5	Small Grass Yellow	*Eurema brigitta*	Pieridae	C
6	Plain Tiger	*Danaus chrysippus*	Nymphalidae	VC
7	Common Indian Crow	*Euploea core*	Nymphalidae	VC
8	Common Sailer	*Neptis hylas*	Nymphalidae	VC

C: Common ; VC: Very Common

For Dhariwal Enviro Research Centre

Proprietor

AMBIENT AIR STATION

Date Of sampling	16/05/2023	Analysis Completed On	29/05/2023
Location of H.V.S.	**Aprrox. 50 meter from Main Gate**		
Lateral Distance	50 Meter from Main Gate		
Receptor Distance	1.5 Meters From Ground Level		
Ambient Temperature (^{0}C)	29	Humidity (%)	49
Wind Speed (km/hr)	09	Wind Direction (deg^0)	W 296
Instruments Used	R.D.S.(APM- 460), F.P.S.(APM – 550), G.P.S.(APM – 411) & Benzene Sampler (GTI-177)		

POLLUTIONAL PARAMETERS

Parameters	Result	Units	NAAQS Limits	Method
PM_{10}	72	µg/m^3	100.00	IS 5182 (Part 23): 2006 (RA 2022)
$PM_{2.5}$	34	µg/m^3	60.00	EPA Quality assurance guidance document 2.12, based on CPCB- 2011
SO_2	18	µg/m^3	80.00	IS 5182 (Part 2): 2001 (RA 2022)
NO_2	23	µg/m^3	80.00	IS 5182 (Part 6): 2006 (RA 2022)
Ammonia (NH_3)	<20	µg/m^3	400.00	CPCB Guidelines For Measurement Of Ambient Air Pollutants Volume-I ,2011
CO	0.92	mg/m^3	04.00	IS 5182 (Part 10) : 1999 (RA 2019)
Lead as Pb	<0.1	µg/m^3	01.00	EPA compendium method IO 3.5:2012
Benzene (C_6H_6)	< 4	µg/m^3	5.00	IS 5182 (Part 11) :2006 (RA 2022)
Arsenic(As)	< 5	ng/m^3	6.00	EPA compendium method IO 3.5:2012
Nickel(Ni)	< 5	ng/m^3	20.00	EPA compendium method IO 3.5:2012
Ozone (O_3)	13	µg/m^3	180.00	IS 5182 (Part 9): 1974 RA 2019
Benzo(a)Pyrene	< 0.1	ng/m^3	1.00	IS 5182 (Part 12): 2004 (RA 2019)

NOTE: 1) The above results relate only to the item tested & the condition prevailing at the time of sampling

2) PM_{10}-Particulate Matter of size < 10 µm, $PM_{2.5}$ - Particulate Matter of size < 2.5 µm

3) NAAQS-National Ambient Air Quality Standards

4) Lower Detection Limit (NH_3 <20 µg/m^3), (Pb <0.10 µg/m^3), (C_3H_6 <4 µg/m^3), (As <5 ng/m^3), (Ni <5 ng/m^3), (Benzo(a)Pyrene < 0.1 ng/m^3)

For Dharitree Enviro Research Centre

Proprietor

AMBIENT NOISE LEVEL MONITORING		
Date Of Monitoring : **07.06.2023**		
Sampling Location : 50 Meter from Main Gate		
Sr. No.	**Time**	**Noise Levels in dB(A) Leq***
1	8.00 am	46.2
2	9.00 am	47.8
3	10.00 am	53.6
4	11.00 am	56.3
5	12.00 am	54.9
6	2.00 pm	51.4
7	4.00 pm	49.7
8	6.00 pm	57.1

Method:-IS:9989-1981 (RA 2001)

NOTE: 1) CPCB Limit During Day time < 55. (Day time shall mean from 6.00 am to 10.00 pm.)

2) CPCB Limit During Night time < 45. (Night time shall mean from 10.00 pm to 6.00 am.)

For Dharitree Enviro Research Centre

Proprietor

ANALYSIS TEST REPORT			
Sample Collection Date	01/06/2023	Analysis Completed On	08/06/2023
Sampling Point	**Canteen**		
Sample Details	**Drinking Water**		
Sample Container	PVC Can	Sample Quantity	5000 ml

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	pH	7.4	-	6.5 - 8.5	IS 3025 (Part-11): 2022
2	Colour	<5	CU	5.0	IS 3025 (Part-4/4): 2021
3	Odour	Agreeable	-	Agreeable	IS3025 (Part-5):2018:RA 2022
4	TDS	112	mg/lit	500	IS 3025 (Part-16):2023
5	Turbidity	<1.0	NTU	1.00	IS 3025 (Part-10): 1984:RA 2022
6	Ammonia	<0.5	mg/lit	0.5	IS 3025 (Part 34/2.2 & 2.3): 1988:RA 2019
7	Chlorides as Cl	15.6	mg/lit	250.00	IS 3025 (Part 32/2): 1988: RA 2019
8	Fluorides as F	0.8	mg/lit	1.0	APHA (24th Edition) 4500 F– D -
9	Residual Chlorine	<0.2	mg/lit	0.2	IS 3025 (P-26/5):2021
10	Nitrate as NO_3	10.4	mg/lit	45.00	APHA (24th Edition) 4500- NO_3-B -
11	Total Alkalinity as	48.37	mg/lit	200	IS 3025(Part23/8.1):1986: RA
12	Total Hardness as	58.00	mg/lit	200.00	IS 3025(Part21/5):2009: RA 2019
13	Sulphate as SO4	3.6	mg/lit	200.00	APHA (24th Edition) 4500 SO4 – E – 2022
14	Cyanide as CN	<0.05	mg/lit	0.05	IS 3025 (Part27/sec1/4) :2021
15	Calcium as Ca	14.43	mg/lit	75.00	IS 3025 (Part40/5):1991: RA 2019
16	Magnesium as	5.34	mg/lit	30.00	IS 3025 (Part 52-6):2003: RA 2019
17	Total Chromium	<0.01	mg/lit	0.05	IS 3025 (Part46/6):1994: RA 2019

For Dharitree Enviro Research Centre

Proprietor

SOLID WASTE MANAGEMENT

Aim :-

1) Scientific disposal of solid waste

2) Protection of human health and environment

Objective:-

1) To increase recycling level

2) To reduce organic waste in landfills

3) To control air, water, soil pollution

4) Production of green manure and vermicompost.

Activity / Observation :

Solid waste is separated as dry and wet. Dry waste includes plastic, glass, paper, metals, wood and related product. Wet waste typically refers to organic waste usually generated as canteen waste, plant debris. Dry waste is separated and it is given for its reuse and recycling to the recycler agency to avoid the pollution. Wet waste is also known as organic waste. It is obtain from canteen , fallen leaves , litter, trash etc. produce in this campus if it is not disposed properly it creates air pollution, to avoid this we have implemented solid organic waste management activity, we run it at two level one is decomposition of solid waste through the composting in pit, vermicompost form solid organic waste and second is training to the students, farmers about production of organic manure like vermicompost, production of mushroom from the solid organic agricultural waste which ultimately conversion of Best from Waste, further the best biofertilizer is used for plants of college campus which enhances greenery leads environment clean and fresh.

ENVIRONMENT AWARENESS PROGRAM

Aim and objective:

- To plan, organize and implement programmes like landscape and plantation, water management & conservation, and rain water harvesting.
- To provide education that prepares students for leadership and social responsibility teaching them to think and communicate effectively and develop a global awareness.
- To introduce environmental education programmes for strengthen the existing ecological and environment related training infrastructure.
- To organize training programmes for vocationalisation of environmental careers.
- To strengthen Global Environmental Education Programmes for standardization of greening activities.
- To introduce environmental education programmes in strengthen the existing ecological and environment related training infrastructure.
- To make special plans for the studies vermiculture, plantation, nursery development, water & energy conservation and management, rain water harvesting and other related fields.
- To provide environmental education that prepares students for leadership and social responsibility by teaching them to think and communicate effectively and develop global environmental awareness and sensitivity.

Ventilation and Indoor Air Quality (IAQ) :

- There is adequate size of windows in college class rooms as well as in corridor which allow sufficient light and ventilation.
- Corridors are wide with good ceiling height
- Classrooms also have high ceiling with wide doors. Windows are kept open to receive sunlight.
- All classrooms are provided with ceiling fans for proper air circulation.

Water Efficiency & Wastewater Management:

- Two RO filtration plant has been installed on main building to provide clean drinking water in campus.
- No water leakage observed anywhere in Campus.
- The students have awareness for water conservation.

Energy Efficiency:

- All the CRT monitors of computers have been replaced with LED monitors.
- Computers are kept switched off when not required to operate.
- Save energy posters/stickers such as "Switch off all electrical equipment's when not required to use" at maximum locations to spread energy conservation awareness.
- All conventional incandescent tube lights are replaced with LED tube lights.

Ambiance and Acoustic Control:

- Tree plantation in and around the campus help in reducing ambient temperature and acoustic control.
- The college is located away from road side so there is no major noise pollution.

Waste Management:

Paper waste

- Being academic institution, waste paper is the main solid waste generated in the premises. The institution has taken steps to minimize usage of papers by implementing e-notice board.
- Both sides of the pages are utilized to avoid excess paper usages.
- Paper wastes are not directly disposed off in dustbin, it is given to local vendors for recycling and reuse.

e-waste

- The college has taken initiative to segregate and collect e-wastes and stored at designated place for its proper disposal.

Canteen and Solid Waste Management

- Wet and dry wastes are segregated in college canteens and directly handed over to the concern Municipal Corporation for disposal.
- Bio-degradable and non-biodegradable waste is generated labs, are also segregated and disposed of through Municipal Corporation

Summary:

Environment Audit is one of the important tools to check the balance of natural resources and its judicial use. Environment auditing is the process of identifying and determining whether institutional practices are eco-friendly and sustainable. It is a process of regular identification, quantification, documenting, reporting and monitoring of environmentally important components in a specified area. College has conducted a "Environment Audit" in the academic year 2023. The main objective to carry out environment audit is to check the green practices followed by College and to conduct a well-defined audit report to understand whether the Institute is on the track of sustainable development.

Recommendations:

- CFL lamps can be used in all sections to minimize the usage of fluorescent tubes
- Waste water management still needs to be practiced and designed in the campus.
- Drips and sprinklers can be used for watering the gardens and lawns.
- Roof top rain water harvesting can be designed and constructed.
- Special days like, Teachers Day, Guru poornima, van mahotsav can be celebrated by plant donations. • E-waste segregation, handling and disposal can be deployed at the campus.

PHOTOGALLARY

Rainwater Harvesting Unit

Compost Pit

Compost Pit

Compost Pit

For Dhatrree Enviro Research Centre

Proprietor

Fire Extinguishers

Plastic Waste Segregation Bin

Environmental Education program

Systematic Identification and Geo-Tagging of the flora

Sports facilities at premises

Green belt

Approach Road to college

Green belt in the college premises

M/s Pune Vidyarthi Griha

College of Science & Technology

New Collage Building,CTS No.218 Nath Pai Nagar Ghatkopar (E) Mumbai 400077

ENERGY AUDIT REPORTS 2023

By-

अशोक इलेक्ट्रीकल कॉर्पोरेशन

ASHOK ELECTRICAL CORPORATION

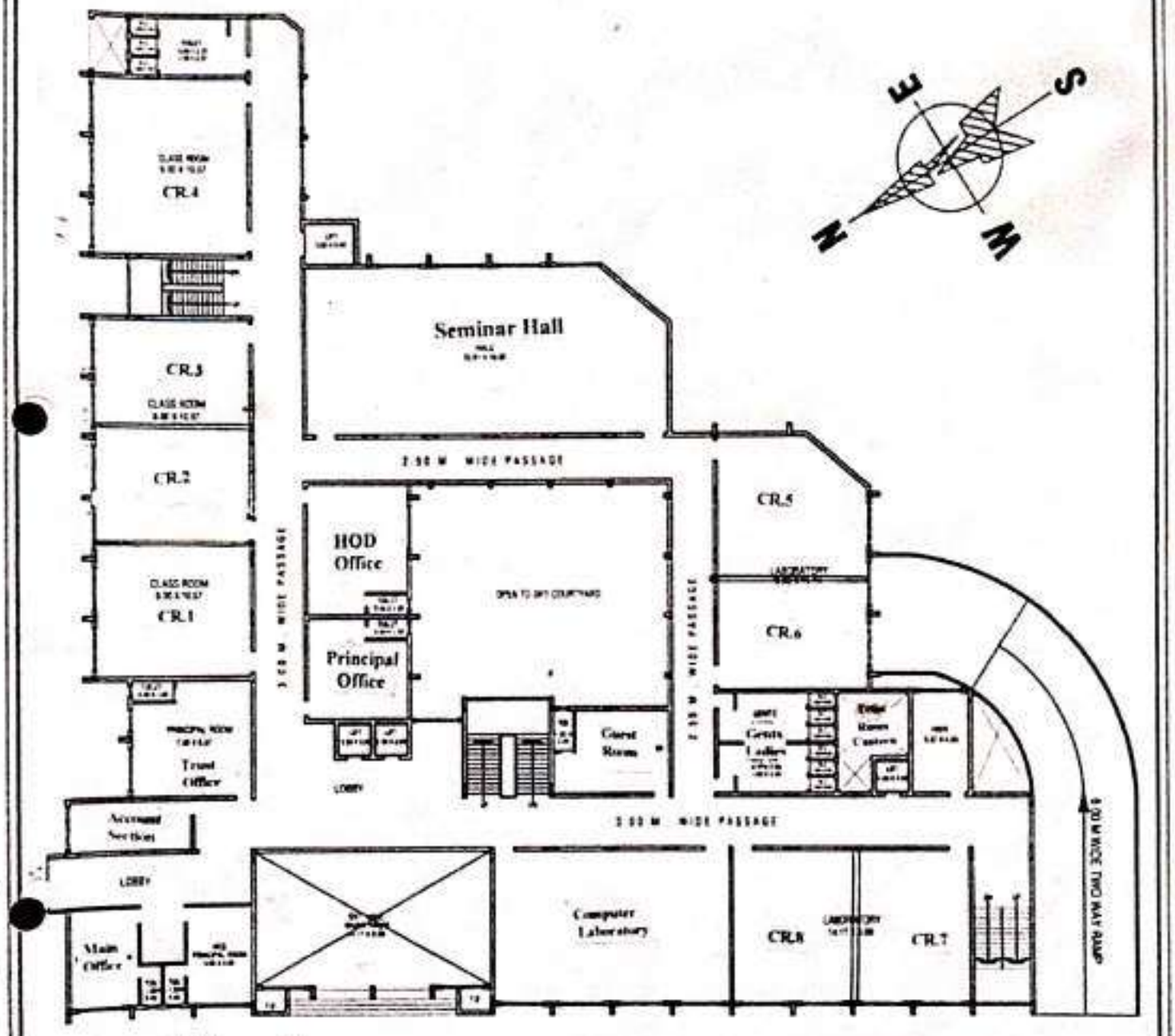
(Government Licenced Electrical Contractor, Engineer & Consultant)

Office: 202, Shri Siddhivinayak Adora CHS., Bldg. No. O.B. 9, Hingwala Lane, Behind Ganesh Mandir, Pantnagar, Ghatkopar (E), Mumbai - 400075.

M : 9820017395 / 9867617395 / 9892282900

agw.9872@gmail.com / ashok.wandekar9872@gmail.com

12 APR 2023



ground floor plan

Electrical Layout

13.41M. WIDE ROAD

FOR - PUNE VIDYARTHI GRIHA

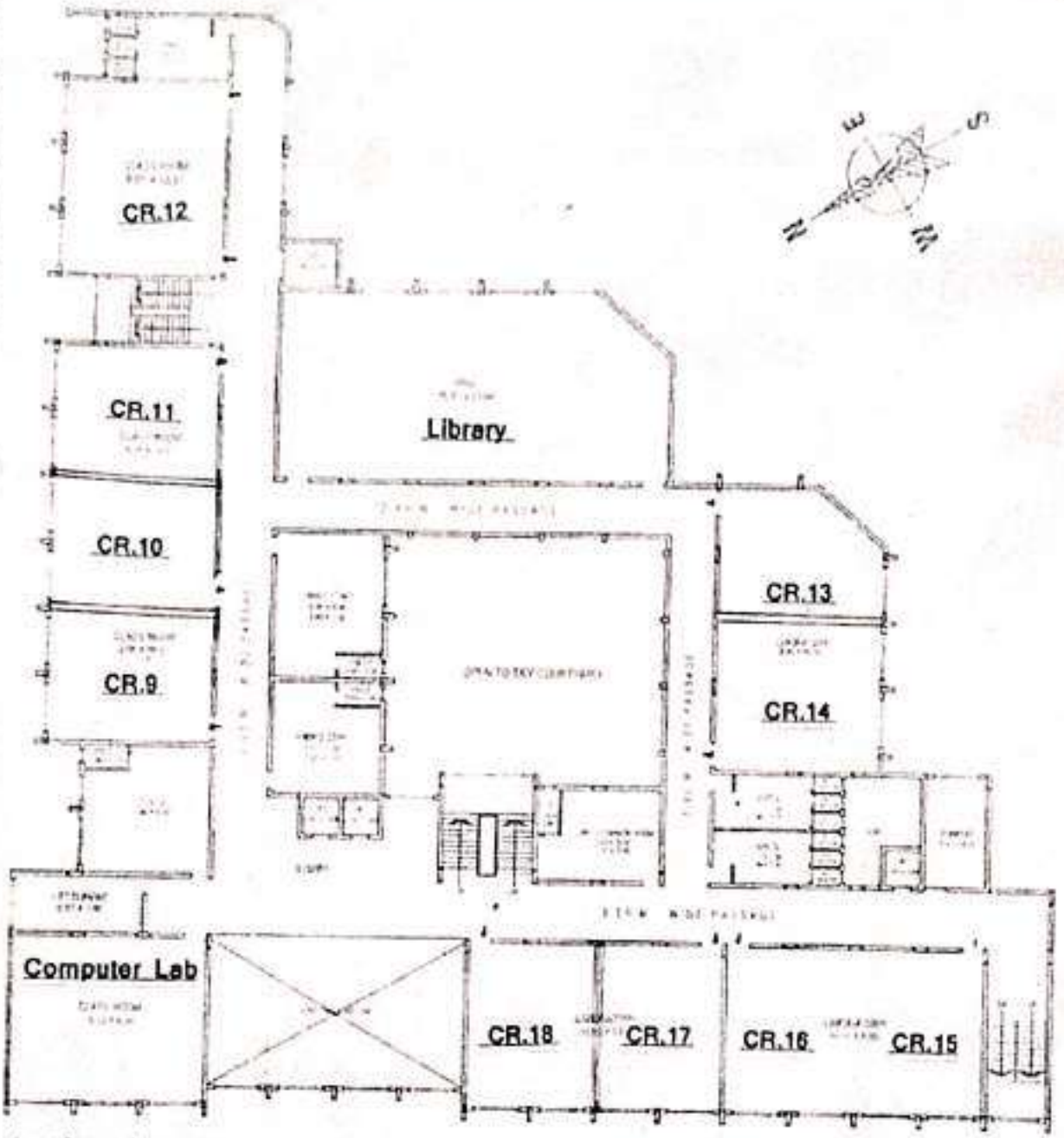
PLAN OF THE PROPERTY BEARING NO 218 OF VILLAGE GHATKOPAR AT NATH PAI NAGAR GHATKOPAR (EAST)

Architect
bhupendra patrawala

room no. 'F' 2nd floor,
93, mumbai samachar marg,
mumbai - 400 023

ASHOK ELECTRICAL CORPORATION
M.C.-12515
M.S.-30[illegible]

12 APR 2023



first floor plan

Electrical Layout

FOR - PUNE VIDYARTHI GRIHA

PLAN OF THE PROPERTY BEARING NO 218 OF
VILLAGE GHATKOPAR AT NATHPAI NAGAR
GHATKOPAR EAST

Architect
bhupendra patrawala

12 APR 2023

ASHOK ELECTRICAL CORPORATION
M.C.-126...
EST. 1988
M.S.-30...

अशोक इलेक्ट्रीकल कॉर्पोरेशन
ASHOK ELECTRICAL CORPORATION

(Government Licenced Electrical Contractor, Engineer & Consultant)

Undertake Installation of L.T. & H.T. Power of Housing & Commercial Complex, Installation of Street Lights & Liaisoning Work of Adani Electricity, M.S.E.D.C.L., Tata Power, B.E.S.T.

Office : 202, Shri Siddhivinayak Adora Co.op. Hsg. Society, Bldg. No. O.B. 9, Hingwala Lane, Pantnagar, Ghatkopar (E), Mumbai - 400075. M : 9820017395 / 9892282900 / 8655616879 • E : agw.9872@gmail.com

Electrical work Inspection certificate

We hereby certify that the electrical installation work at the premises and for the party mentioned above has been carried out by us in full conformity with the Indian Electricity Rules 1956, and the conditions of supply. The particulars of the installation and insulation test results obtained by us are given below. (In case the form is filled up in respect of work of repairing and/ or testing of an existing installation, the above paragraph should specially be modified accordingly.)

Ref: - Public Service tariff -Account No. 151923385 -Meter No. SML0001419 {A.E.M.Ltd } 3Ø Meter

MAIN OFFICE Collage Building Ground Floor & First Floor –Electric Lighting Load

Sr No	Appliances	Total No.	Wattage	Total Wattage	Total KW
1	TUBE LIGHTS	11	22	11 x 22 Watts = 220 W	0.22KW
2	FAN Ceiling	09	60	09 x 60 Watts = 540 W	0.54 KW
3	15 AMP SOCKETS	-----	----	-----	-----
4	Office Computer CPU	3	100	03 x 100 Watts = 300 W	0.30 KW
5	Monitor	3	40	03 x 40 Watts = 120 W	0.12 KW
6	Wi Fi Switch	1	40	01x 40 Watts = 40 W	0.04 KW
7	D Link Socket	1	100	01x 100 Watts = 100 W	0.10KW
8	05 AMP SOCKETS	69	40	69x 40 Watts = 2760W	2.76 KW
	Office Gents Toilet Grd Floor				Total 4. 044 KW
9	TUBE LIGHTS	02	20	02x 20 Watts = 40 W	0.04. KW
10	FAN	1	60	01x 60 Watts = 60 W	0.06.KW
11	05 AMP SOCKETS	1	60	01x 60 Watts = 60 W	0.06.KW
	Office Ladies Toilet Grd Floor				Total 0. 16 KW
12	Tube Light	02	20	01x 40 Watts = 40 W	0.04 KW
13	05 AMP SOCKETS	1	60	01x 60 Watts = 60 W	0.06 KW
				Total Load	4.304 KW

ACCOUNT SECTION OFFICE Collage Building Ground Floor –Electric Lighting Load

Sr No	Appliances	Total No.	Wattage	Total Wattage	Total KW
14	TUBE LIGHTS	02	22	02 x 22 =44 Watts	0.044KW
15	FAN Ceiling	01	60	01 x60 W = 60 Watts	0.060 KW
16	15 AMP SOCKETS	11	40	11x 40 Watts = 440	0.44 KW
17	Office Computer CPU	1	100	1x 100 Watts	0.10 KW
18	Monitor	3	40	4x 40 Watts = 160	0.60 KW
19	Printers	1	100	1x 100 Watts	0.10 KW
				TOTAL LOAD	1.254 KW

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TRURST OFFICE Collage Building Ground Floor –Electric Lighting Load

Sr No	Appliances	Total No.	Wattage	Total Wattage	Total KW

12 APR 2023

20	TUBE LIGHTS	20	22	20x 22 = 440 Watts	0.44 KW
21	FAN Ceiling	01	60	1x 6 =60 Watts	0.060 KW
22	15 AMP SOCKETS	16	40	16 x 40 Watts 640	0.64 KW
23	Computer CPU All in One	1	150	1 x 150 Watts	0.15 KW
24	Air Condition	01	2.8KW	1x 28000 Watts	2.80 KW
25	TV	01	100	1x 100 Watts	0.10 KW
26	Wash Room Gazer	01	3 KW	1 x 3000W = 3 KW	3.00 KW
27	Wash Room Light LED	02	22	02 x 22 =44 Watts	0.044KW
28	Wash Room Gazer	03	60	03x 60 = 180 Watts	0.18 KW
				Total Load	7.41 KW

Class Room No.1 Ground Floor –Electric Lighting Load

29	Ceiling Fan	6 x 100W	Total Wattage= 100 Watts	600 Watts	0.60 KW
30	Tube Light	6 x 20 Watts	Total Wattage= 120 Watts	120 Watts	0.12KW
31	05 AMP SOCKET	1 No x 100 Watts	100W	100 Watts	0.10 KW
32	Projector	100W x 1	100Watts	100 Watts	0.10 KW
	Total Points & KW			920 Watts	0.92 .KW

Class Room No.2 Ground Floor –Electric Lighting Load

33	Ceiling Fan	6 x 100W	Total Wattage= 100 Watts	600 Watts	0.60 KW
34	Tube Light	6 x 20 Watts	Total Wattage= 120 Watts	120 Watts	0.12KW
35	05 AMP SOCKET	1 No x 100 Watts	100W	100 Watts	0.10 KW
	Total Points & KW			820 Watts	0.82 .KW

Class Room No.3 Ground Floor –Electric Lighting Load

36	Ceiling Fan	6 x 100W	Total Wattage= 100 Watts	600 Watts	0.60 KW
37	Tube Light	6 x 20 Watts	Total Wattage= 120 Watts	120 Watts	0.12KW
38	05 AMP SOCKET	18 No x 100 Watts	1800W	1800 Watts	1.80 KW
	Total Points & KW			1870 Watts	1.87.KW

Class Room No.4 Ground Floor –Electric Lighting Load

39	Ceiling Fan	9 x 100W	Total Wattage= 900 Watts	600 Watts	0.90 KW
40	Tube Light	9 x 20 Watts	Total Wattage= 180 Watts	180 Watts	0.18 KW
41	05 AMP SOCKET (Projector)	03 No x 100 Watts	300W	300 Watts	0.30 KW
	Total Points & KW			1380 Watts	1.38.KW
42	Student Gents Toilet	Total No.	Wattage	Total	KW
43	TUBE LIGHTS	02	20 x 02 = 180 Watts	180 Watts	0.18KW
44	FAN	1	60 x 01= 60 Watts	60 Watts	0.06 KW
45	05 AMP SOCKETS (Projector)	1	60 x 1 += 60 Watts	60 Watts	0.06 KW
				Total 300 Watts	0.30KW

H.O.D OFFICE Ground Floor –Electric Lighting Load

46	Ceiling Fan	4 x 100W	Total Wattage= 400 Watts	400 Watts	0.40 KW
47	Tube Light	4x 20 Watts	Total Wattage= 80 Watts	80 Watts	0.80 KW
48	05 AMP SOCKET	03 No x 100 Watts	Total Wattage = 300W	300 Watts	0.30 KW
49	Computer CPU	01 No x 100 Watts	Total Wattage = 100W	100 Watts	0.10 KW
50	Monitor	01 No x 40 Watts	Total Wattage = 40W	40 Watts	0.04 KW
51	Printer	01 No x 100 Watts	Total Wattage = 100W	100 Watts	0.10 KW
52	Toilet Tube Light	01 No x 20 Watts	Total Wattage = 20W	100 Watts	0.02 KW
53	Toilet 5 Amp Socket	03 No x 100 Watts	Total Wattage = 300W	300 Watts	0.30 KW
	Total Points & KW			Total 2060 Watts	-2.06 KW

Collage Principal Office Ground Floor

54	Ceiling Fan	4 x 100W	Total Wattage= 400 Watts	400 Watts	0.40 KW
55	Tube Light	4x 20 Watts	Total Wattage= 80 Watts	80 Watts	0.80 KW
56	05 AMP SOCKET	19 No x 100 Watts	Total Wattage = 1900W	1900 Watts	1.30 KW
57	Computer CPU	01 No x 100 Watts	Total Wattage = 100W	100 Watts	0.10 KW
58	Monitor	01 No x 40 Watts	Total Wattage = 40W	40 Watts	0.04 KW
59	Printer	01 No x 100 Watts	Total Wattage = 100W	100 Watts	0.10 KW

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60	Air Condition	01 x 2800 Watts	Total Wattage = 28000 W	28000Watts	2.8 KW
61	C C T V DVR	04 x 100W	Total Wattage= 400 Watts	400 Watts	0.40 KW
62	Toilet Tube Light	01 No x 20 Watts	Total Wattage = 20W	100 Watts	0.02 KW
63	Toilet 5 Amp Socket	03 No x 100 Watts	Total Wattage = 300W	300 Watts	0.30 KW
	Total Points & KW			Total	6282 Watts 6.28 KW

Seminar Hall Ground Floor

64	Ceiling Fan	17x 100W	Total Wattage= 1700 Watts	1700 Watts	1.7 KW
65	Tube Light	29x 20W	Total Wattage= 580 Watts	580 Watts	0.58 KW
66	05 AMP SOCKET	14 No x 100 Watts	Total Wattage = 1400W	1400Watts	1.40 KW
67	15 AMP SOCKET	04 No x 200 Watts	Total Wattage = 800 W	800 Watts	0.8 KW
68	Air Condition	06x 2800 Watts	Total Wattage = 16800 W	16800Watts	16.8 KW
69	Acoustic System - Amplifier - Speaker	01x 120 Watts 06x 20 Watts	Total Wattage = 120 W Total Wattage = 120 W	240Watts	0.24 KW
	Total Points & KW			Total 21520 Watts	21.52 KW

CR-05 Ground Floor

70	Ceiling Fan	05 x 100W	Total Wattage= 500 Watts	500 Watts	0.5 KW
71	Tube Light	06x 20W	Total Wattage= 120 Watts	120 Watts	0.12 KW
72	05 AMP SOCKET	01No x 100 Watts	Total Wattage = 100W	100 Watts	0.1 KW
73	15 AMP SOCKET	18 No x 200 Watts	Total Wattage = 3600 W	3600 Watts	3.6 KW
	Total Points & KW			Total 4320 Watts	4.32 KW

CR-06 Ground Floor

74	Ceiling Fan	06 x 100W	Total Wattage= 600 Watts	600 Watts	0.6 KW
75	Tube Light	08x 20W	Total Wattage= 160 Watts	160 Watts	0.16 KW
76	05 AMP SOCKET	18No x 100 Watts	Total Wattage = 1800 W	1800 Watts	1.8 KW
77	05 AMP SOCKETS+ (Projector)	02No x 200 Watts	Total Wattage = 400 W	400 Watts	0.4 KW
	Total Points & KW			Total 2960 Watts	2.96 KW

CR-07 Ground Floor

78	Ceiling Fan	09 x 100W	Total Wattage= 900 Watts	900 Watts	0.9 KW
79	Tube Light	07x 20W	Total Wattage= 140 Watts	140 Watts	0.14 KW
80	05 AMP SOCKET	03No x 100 Watts	Total Wattage = 300 Watts	300 Watts	0.3 KW
81	15 AMP SOCKET	03No x 200 Watts	Total Wattage = 600 Watts	600 Watts	0.6 KW
82	Projector	01 x 100 Watts	Total Wattage = 100 Watts	100 Watts	0.1 KW
	Total Points & KW			Total 2040 Watts	2.04 KW

CR-08 Ground Floor

83	Ceiling Fan	06 x 100W	Total Wattage= 600 Watts	600 Watts	0.6 KW
84	Tube Light	04 x 20W	Total Wattage= 80Watts	80 Watts	0.08 KW
85	05 AMP SOCKETS+ (Projector)	02 x 200 Watts	Total Wattage = 400 Watts	400 Watts	0.4 KW
	Total Points & KW			Total 1080 Watts	1.08 KW

TOILETS Ground Floor

86	Gents Toilet				
87	Tube Light	02x 20W	Total Wattage= 40Watts	40 Watts	0.04 KW
88	Ladies Toilet				
89	Tube Light	02x 20W	Total Wattage= 40Watts	40 Watts	0.04 KW
90	05 AMP SOCKET	02 x 100 Watts	Total Wattage = 200 Watts	200Watts	0.2 KW
91	Sanitary Napkin Machine	01 x 100 Watts	Total Wattage = 100 Watts	100 Watts	0.1 KW
	Total Points & KW			Total 380 Watts	0.38 KW

Canteen Ground Floor

92	Ceiling Fan	02 x 100W	Total Wattage= 200 Watts	200 Watts	0.2 KW
93	Tube Light	02 x 20W	Total Wattage= 40Watts	40 Watts	0.04 KW
94	05 AMP SOCKET	06 x 100 Watts	Total Wattage = 600 Watts	600 Watts	0.6 KW
	Total Points & KW			Total 840Watts	0.84 KW

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Guest Room Ground Floor

95	Ceiling Fan	02x 100W	Total Wattage= 200 Watts	200 Watts	0.2 KW
96	Tube Light	04x 20W	Total Wattage= 80 Watts	80 Watts	0.08 KW
97	Television Set	1 No x 100 Watts	Total Wattage = 100W	100Watts	0.1 KW
98	Air Condition	01x 1400 Watts	Total Wattage = 1400 W	1400Watts	1.4 KW
	Toilet				
99	Tube Light	01x 20W	Total Wattage= 20 Watts	20 Watts	0.02 KW
101	Geyser	01x3000	Total Wattage= 3000 Watts	3000 Watts	3 KW
102	5 AMP Socket	06x100	Total Wattage= 600 Watts	600 Watts	0.6 KW
	Total Points & KW			Total 5400 Watts	5.4 KW

Computer Laboratory-1 Ground Floor

103	Ceiling Fan	9 x 100W	Total Wattage= 900 Watts	900 Watts	0.9 KW
104	Tube Light	15x 20 Watts	Total Wattage= 300 Watts	300 Watts	0.3 KW
105	05 AMP SOCKET	219 No x 100 Watts	Total Wattage = 21900W	21900 Watts	21.9 KW
106	Computer CPU	65 No x 100 Watts	Total Wattage = 6500W	6500Watts	6.5 KW
107	Monitor	65 No x 40 Watts	Total Wattage = 40W	2600 Watts	2.6 KW
108	Printer	01 No x 100 Watts	Total Wattage = 100W	100 Watts	0.10 KW
109	Air Condition	02 x 2800 Watts	Total Wattage = 5600 W	5600Watts	5.6 KW
110	Projector	01 x 100W	Total Wattage= 100 Watts	100 Watts	0.1 KW
	Total Points & KW			Total 38000	Watts 38 KW

Passage & Outdoor Area Ground Floor

111	Lights	32 x 20W 07 x 20W 02 x 50W 02 x 250W	Total Wattage= 640Watts Total Wattage= 140Watts Total Wattage= 100Watts Total Wattage= 500Watts	640 Watts 140 Watts 100 Watts 500 Watts	0.64 KW 0.14 0.1 0.5
112	05 AMP SOCKET	06 x 100 Watts	Total Wattage = 600 Watts	600 Watts	0.6 KW
	Total Points & KW			Total 1980Watts	1.98 KW

Load Summary

Sr No 1-13	4.044 KW
Sr No 14-19	1.254 KW
Sr No 20-28	7.41 KW
Sr No 29-32	0.92 KW
Sr No 33-35	1.87 KW
1 TO 35	15.498

36-38	1.87 KW
39-41	1.38 KW
42-45	0.30 KW
46-53	2. 06 KW
54-63	6.26 KW
36-63	37.61

64-69	21.52 KW
70-73	4. 32 KW
74-77	2.96 KW
78-82	0.204KW
83-85	1.08 KW
64-85-	30.08

86-91	0.38 KW
92-94	0.84 KW
95-102	5.4KW
104-110	38.KW
111-113	1.98KW
86-113-	46.6 KW

Sr No. 1 TO 113
TOTAL Load
15.498 + 37.61 +
30.08 + 46.6 =
129.788 KW

The Electrification of the above building we are Submitting Test reports of Insulation Resistance & Earth Resistance test Results. You are requested to please arrange earlier inspection of the electrical installation.

Lighting	Earth Resistance test....0.18 Ohms
Between Phase to Phase_15_Mega ohms	Between Phase to Earth _12 Mega ohms

Remarks- Caption Premises internal Wiring and Supply done buys And All Electrical Safety Taken into Consideration Use the ELCB 125/30 Ma & Earthlings .In D.B Box

All Wiring is In Healthy Condition

Note;-

The Above Said Electrical Inspection on This Dated 11/04/2023Ok

Certificate Valid for One Year This Certificate Not Valid If Done any Extra unauthorized Wiring & Points or Temp Wiring.

You Faithfully

For Ashok Electric Corporation,

ASHOK ELECTRICAL CORPORATION M.C.-12615 M.S.-30999

Proprietor

M.C.12615 / M.S.30999

12 APR 2023

अशोक इलेक्ट्रीकल कॉर्पोरेशन
ASHOK ELECTRIGAL GORPORATION

(Government Licenced Electrical Contractor, Engineer & Consultant)

Undertake Installation of L.T. & H.T. Power of Housing & Commercial Complex, Installation of Street Lights & Liaisoning Work of Adani Electricity, M.S.E.D.C.L., Tata Power, B.E.S.T.

Office : 202, Shri Siddhivinayak Adora Co.op. Hsg. Society, Bldg. No. O.B. 9, Hingwala Lane, Pantnagar, Ghatkopar (E), Mumbai - 400075. M : 9820017395 / 9892282900 / 8655616879 • E : agw.9872@gmail.com

Electrical work Inspection certificate

We hereby certify that the electrical installation work at the premises and for the party mentioned above has been carried out by us in full conformity with the Indian Electricity Rules 1956, and the conditions of supply. The particulars of the installation and insulation test results obtained by us are given below. (In case the form is filled up respect of work of repairing and/ or testing of an existing installation, the above paragraph should specially be modified accordingly.)

Ref:- Public Service tariff Account No.151923385 -Meter No SM10042578

Computer Laboratory-2 First Floor

1	Ceiling Fan	9 x 100W	Total Wattage= 900 Watts	900 Watts	0.9 KW
2	Tube Light	12 x 20 Watts	Total Wattage= 240 Watts	240 Watts	0.24 KW
3	05 AMP SOCKET	136 No x 100 Watts	Total Wattage = 13600W	13600 Watts	13.6 KW
4	Computer CPU	33 No x 100 Watts	Total Wattage = 3300W	3300Watts	3.3 KW
5	Monitor	33 No x 40 Watts	Total Wattage = 1320W	1320 Watts	1.32 KW
7	Air Condition	02 x 2800 Watts	Total Wattage = 5600 W	5600Watts	5.6 KW
8	Projector	01 x 100W	Total Wattage= 100 Watts	100 Watts	0.1 KW
1-8	Total Points & KW			Total 25060 Watts	25.06 KW

Stationary room First Floor

9	Ceiling Fan	02 x 100W	Total Wattage= 200 Watts	200 Watts	0.2 KW
10	Tube Light	04 x 20W	Total Wattage= 80Watts	80 Watts	0.08 KW
11	05 AMP SOCKET	02 x 100 Watts	Total Wattage = 200 Watts	200 Watts	0.2 KW
9-11	Total Points & KW			Total 840Watts	0.48 KW

CR-09 First Floor

12	Ceiling Fan	06 x 100W	Total Wattage= 600 Watts	600 Watts	0.6 KW
13	Tube Light	08 No x 20W	Total Wattage= 160 W	160 Watts	0.16 KW
14	15 AMP SOCKET	02 x 200 Watts	Total Wattage = 400 Watts	400 Watts	0.4 KW
12-14	Total Points & KW			Total 960Watts	0.96 KW

CR-10 First Floor

15	Ceiling Fan	06 x 100W	Total Wattage= 600 Watts	600 Watts	0.6 KW
16	Tube Light	08 No x 20W	Total Wattage= 160 W	160 Watts	0.16 KW
17	05 AMP SOCKET	02 x 100 Watts	Total Wattage = 200 Watts	200 Watts	0.2 KW
15-17	Total Points & KW			Total 760Watts	0.76 KW

CR-11 First Floor

18	Ceiling Fan	06 x 100W	Total Wattage= 600 Watts	600 Watts	0.6 KW
19	Tube Light	08 No x 20W	Total Wattage= 160 W	160 Watts	0.16 KW
20	05 AMP SOCKET	02 x 100 Watts	Total Wattage = 200 Watts	200 Watts	0.2 KW
18-20	Total Points & KW			Total 760Watts	0.76 KW

12 APR 2023

CR-12	**First Floor**				
21	Ceiling Fan	09x 100W	Total Wattage= 900 Watts	900 Watts	0.9 KW
22	Tube Light	12x 20W	Total Wattage= 240 Watts	240 Watts	0.24 KW
23	15 AMP SOCKET	03 No x 200 Watts	Total Wattage = 600 W	600 Watts	0.6 KW
21-23	Total Points & KW			Total 4320 Watts	1.74 KW
Library	**First Floor**				
24	Ceiling Fan	18 x 100W	Total Wattage= 1800 Watts	1800 Watts	1.8 KW
25	Tube Light	24x 20W	Total Wattage= 480 Watts	480 Watts	0.48 KW
26	05 AMP SOCKET	20No x100 Watts	Total Wattage = 2000 Watts	2000 Watts	2 KW
24-26	Total Points & KW			Total 4320 Watts	4.28 KW
CR-13	**First Floor**				
27	Ceiling Fan	09x 100W	Total Wattage= 900 Watts	900 Watts	0.9 KW
28	Tube Light	12x 20W	Total Wattage= 240 Watts	240 Watts	0.24 KW
29	15 AMP SOCKET	03 No x 200 Watts	Total Wattage = 600 W	600 Watts	0.6 KW
27-29	Total Points & KW			Total 4320 Watts	1.74 KW
CR-14	**First Floor**				
30	Ceiling Fan	09 x 100W	Total Wattage= 900 Watts	900 Watts	0.9 KW
31	Tube Light	12x 20W	Total Wattage= 240 Watts	240 Watts	0.24 KW
32	15 AMP SOCKET	03No x 200 Watts	Total Wattage = 600 Watts	600 Watts	0.6 KW
30-32	Total Points & KW			Total 4320 Watts	1.74 KW
CR-15	**First Floor**				
33	Ceiling Fan	06 x 100W	Total Wattage= 600 Watts	600 Watts	0.6 KW
34	Tube Light	08 No x 20W	Total Wattage= 160 W	160 Watts	0.16 KW
35	15 AMP SOCKET	02 x 200 Watts	Total Wattage = 400 Watts	400 Watts	0.4 KW
33-35	Total Points & KW			Total 960Watts	0.96 KW
CR-16	**First Floor**				
36	Ceiling Fan	06 x 100W	Total Wattage= 600 Watts	600 Watts	0.6 KW
37	Tube Light	08 No x 20W	Total Wattage= 160 W	160 Watts	0.16 KW
38	15 AMP SOCKET	02 x 200 Watts	Total Wattage = 400 Watts	400 Watts	0.4 KW
36-38	Total Points & KW			Total 960Watts	0.96 KW
CR-17	**First Floor**				
39	Ceiling Fan	06 x 100W	Total Wattage= 600 Watts	600 Watts	0.6 KW
40	Tube Light	08 No x 20W	Total Wattage= 160 W	160 Watts	0.16 KW
41	15 AMP SOCKET	02 x 200 Watts	Total Wattage = 400 Watts	400 Watts	0.4 KW
39-41	Total Points & KW			Total 960Watts	0.96 KW
CR-18	**First Floor**				
42	Ceiling Fan	06 x 100W	Total Wattage= 600 Watts	600 Watts	0.6 KW
43	Tube Light	08 No x 20W	Total Wattage= 160 W	160 Watts	0.16 KW
44	15 AMP SOCKET	02 x 200 Watts	Total Wattage = 400 Watts	400 Watts	0.4 KW
42-44	Total Points & KW			Total 960Watts	0.96 KW
TOILETS	**First Floor**				
45	Tube Light	01x 20W	Total Wattage= 20Watts	20 Watts	0.02 KW
46	05 AMP SOCKET	01 x 100 Watts	Total Wattage = 100 Watts	100Watts	0.1 KW
45-46	Total Points & KW			Total 380 Watts	0.12 KW
Common Boys room	**First Floor**				
47	Ceiling Fan	04 x 100W	Total Wattage= 400 Watts	400 Watts	0.4 KW
48	Tube Light	08 x 20W	Total Wattage= 160 Watts	160 Watts	0.16 KW
47-48	Total Points & KW			Total 4320 Watts	0.56 KW

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Common Girls room First Floor

49	Ceiling Fan	04 x 100W	Total Wattage= 400 Watts	400 Watts	0.4 KW
50	Tube Light	08 x 20W	Total Wattage= 160 Watts	160 Watts	0.16 KW
49-50	Total Points & KW			Total 4320 Watts	0.56 KW

Exam section First Floor

51	Ceiling Fan	04 x 100W	Total Wattage=400 Watts	400 Watts	0.4 KW
52	Tube Light	07 x 20W	Total Wattage= 140Watts	140 Watts	0.14 KW
53	05 AMP SOCKET	15 x 100 Watts	Total Wattage = 1500 Watts	1500 Watts	1.5 KW
54	Computer CPU	04 No x 100 Watts	Total Wattage = 400W	400Watts	0.4 KW
55	Monitor	04 No x 40 Watts	Total Wattage = 160W	400Watts	0.16KW
56	Printer	01 No x 100 Watts	Total Wattage = 100W	100 Watts	0.10 KW
57	Xerox Machine	01 No x 1500 Watts	Total Wattage = 1500W	1500 Watts	1.5 KW
51-57	Total Points & KW			Total 4200Watts	4.2 KW

Computer Library First Floor

58	Computer CPU	09 No x 100 Watts	Total Wattage = 900W	900Watts	0.9 KW
59	Monitor	04 No x 40 Watts	Total Wattage = 160W	160Watts	0.16 KW
60	Printer	01 No x 100 Watts	Total Wattage = 100W	100 Watts	0.10 KW
[illegible]-60	Total Points & KW			Total 2060 Watts	2.06 KW

Electronics Library First Floor

61	Ceiling Fan	06No x 100 Watts	Total Wattage = 600W	600Watts	0.6 KW
62	Tube Light	08 No x 20W	Total Wattage= 160 W	160 Watts	0.16 KW
63	15 AMP SOCKET	01 No x 200 Watts	Total Wattage =200 W	200 Watts	0.2 KW
61-63	Total Points & KW			Total 960Watts	0.96 KW

TOILETS First Floor Gents Toilet

64	Tube Light	02x 20W	Total Wattage= 40Watts	40 Watts	0.04 KW
65	05 AMP SOCKET	01 x 100 Watts	Total Wattage = 100 Watts	100Watts	0.1KW
66	Ladies Toilet				
67	Tube Light	02x 20W	Total Wattage= 40Watts	40 Watts	0.04 KW
68	05 AMP SOCKET	01x 100 Watts	Total Wattage = 100 Watts	100Watts	0.1 KW
64-68	Total Points & KW			Total 640 Watts	0.64 KW

Gymkhana First Floor

69	Ceiling Fan	12 x 100W	Total Wattage= 1200 Watts	1200 Watts	1.2 KW
70	Tube Light	16 x 20W	Total Wattage= 320 Watts	320 Watts	0.32 KW
71	15 AMP SOCKET	04No x 200 Watts	Total Wattage = 800 Watts	800 Watts	0.8 KW
69-71	Total Points & KW			Total 2320 Watts	2.32 KW

Staff room First Floor

72	Ceiling Fan	03x 100W	Total Wattage= 300 Watts	300 Watts	0.3 KW
73	Tube Light	04 x 20W	Total Wattage= 80 Watts	80Watts	0.08 KW
74	05 AMP SOCKET	03No x 100 Watts	Total Wattage = 300 Watts	300 Watts	0.3 KW
72-74	Total Points & KW			Total 680 Watts	0.68 KW

Passage & Outdoor Area First Floor

75	Tube Light	13x 20W	Total Wattage= 260 Watts	260Watts	0.26 KW
76	15 AMP SOCKET	02 x 200 Watts	Total Wattage = 400 Watts	400 Watts	0.4KW
77	05 AMP SOCKET	05 x 100 Watts	Total Wattage = 500 Watts	500 Watts	0.5 KW
78	Water cooler	01 x 600	Total Wattage = 600 Watts	600 Watts	0.6 KW
75-78	Total Points & KW			Total 1980Watts	1.76 KW

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Load Summary

Sr No 1-08	25.06 KW
Sr No 09-11	0.48 KW
Sr No 12-14	0.96 KW
Sr No 15-17	0.76 KW
Sr No 18-20	0.76 KW
Sr No 21-23	1.74 KW
1-23	30.3 KW

24-26	4.28 KW
27-29	1.74 KW
30-32	1.74 KW
33-35	0.96 KW
36-38	0.96 KW
24-38	9.68

39-41	0.96 KW
42-44	0.96 KW
45-46	0.12 KW
47-48	0.56 KW
49-50	0.56 KW
39-50-	2.29KW

51-57	4.2 KW
58-60	2.08 KW
61-63	0.96 KW
64-68	0.64 KW
69-71	2.32 KW
72-74	0.68 KW
75-78	1.76 KW
51-78-	12.62KW

Sr No. 1 TO 67
TOTAL Load
30.3 + 09.68 + 2.29 + 12.62 =
Total Sr Load - 54.89. KW

Sr.	Floor	Total KW Load	
1	Ground Floor & First Floor	129.788 KW	
3	Ground Floor & Hall	54.89. KW	
4	Water Pump	———	10. H P
5.	Normal Fire Fighting	Total Motor Load	80 HP
	TOTAL- College Building Load	184.67 KW	Total HP – 90 HP

The Electrification of the above building we are Submitting Test reports of Insulation Resistance & Earth Resistance test Results. You are requested to please arrange earlier inspection of the electrical installation.

Lighting	Earth Resistance test....0.18 Ohms
Between Phase to Phase_15_Mega ohms	Between Phase to Earth _12 Mega ohms

Remarks- Caption Premises Internal Wiring and Supply done buys And All Electrical Safety Taken into Consideration Use the ELCB 125/30 Ma & Earthlings .In D.B Box
All Wiring is In Healthy Condition

Note;-

The Above Said Electrical Inspection on This Dated 11/04/2023Ok
Certificate Valid for One Year This Certificate Not Valid If Done any Extra unauthorized Wiring & Points or Temp Wiring.

You Faithfully

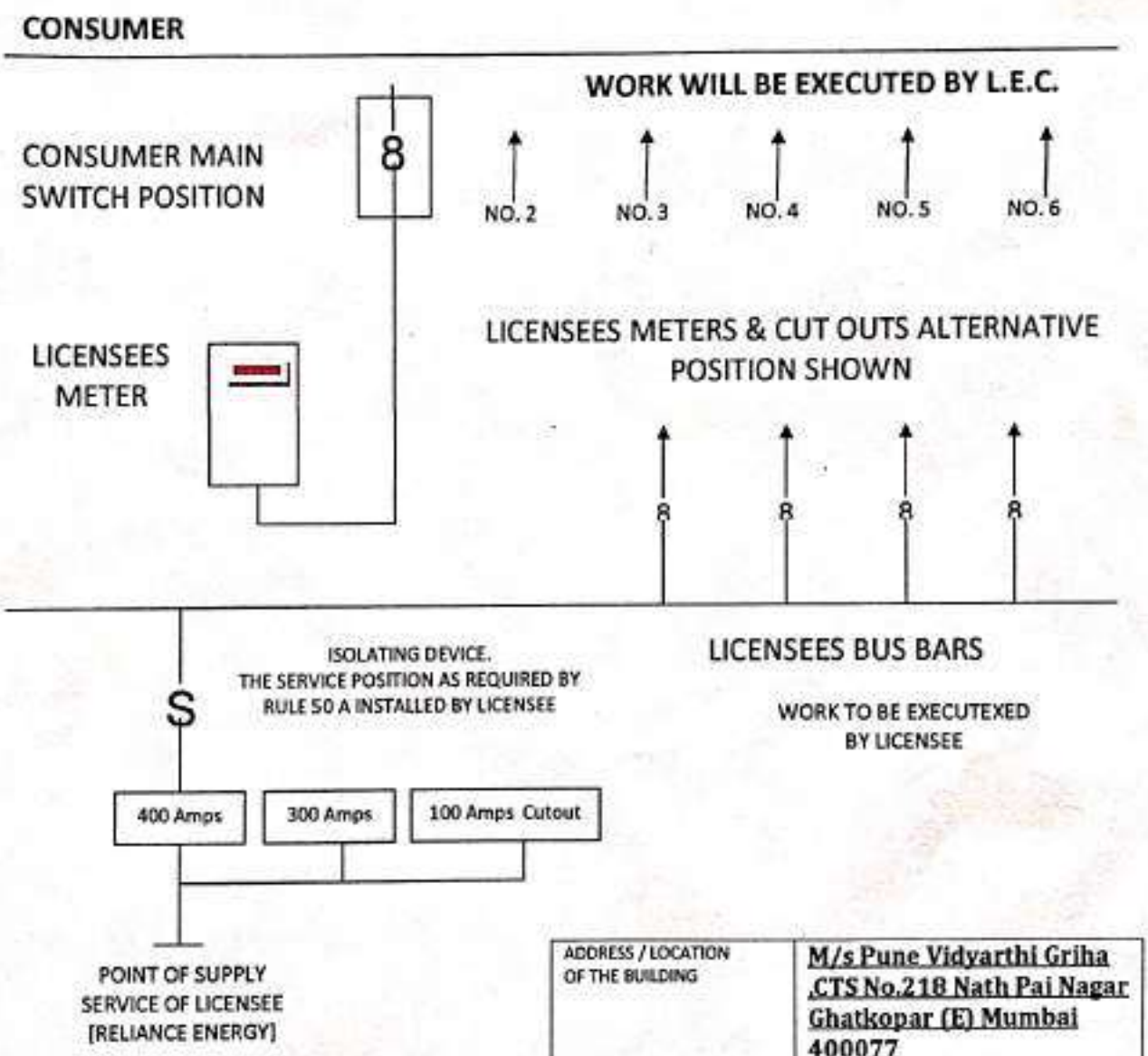
For Ashok Electric Corporation,

Proprietor

M.C.12615 / M.S.30999

12 APR 2023

TYPICAL ARRANGEMENT FOR SUPPLY OF ENERGY TO MULTI – STOREYED C OLLAGE BUILDING



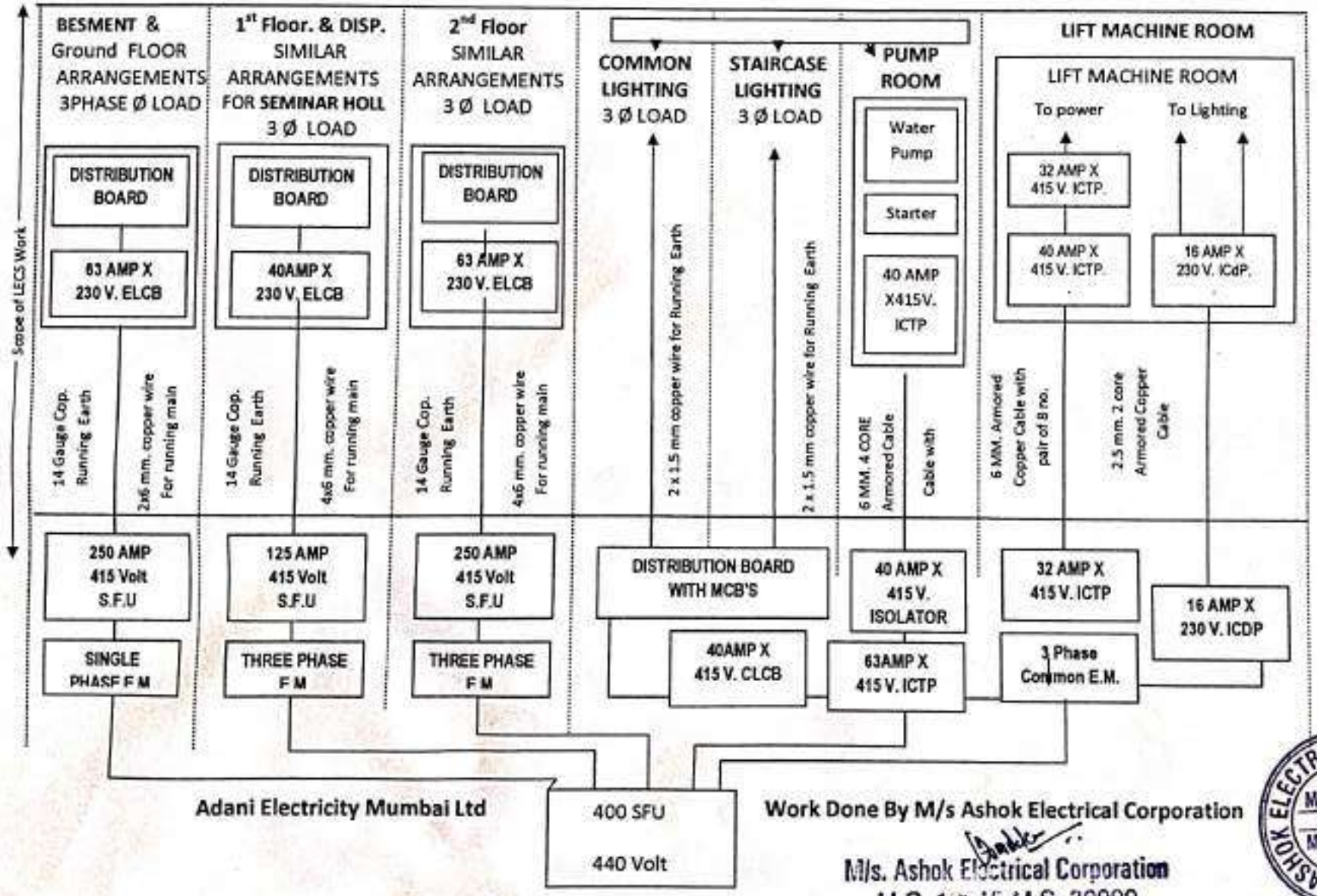
ADDRESS / LOCATION OF THE BUILDING	M/s Pune Vidyarthi Griha ,CTS No.218 Nath Pai Nagar Ghatkopar (E) Mumbai 400077
NAME OF THE BUILDER	M/s Pune Vidyarthi Griha
NAME OF THE LICENSED ELECTRICAL CONTRACTOR	M/s. Ashok Electrical Corporation. Mumbai .75
STIPULATED TIME PERIOD FOR COMPLETION OF WORK	Part Work Done Basement & Ground First Floor Completed. 1Jan 2014

M/s. Ashok Electrical Corporation
M.C. 12515-M.S. 30999
12 APR 2023

ASHOK ELECTRICAL CORPORATION
M.C.-12515
EST.-1998
M.S.-30999

Proposed New Collage Building M/s Pune Vidyarthi Griha ,CTS No.218 Nath Pai Nagar Ghatkopar (E) Mumbai 400077

TUPICAL LINE DIGRAM SHOWING WIRING IN HIGH RISING BUILDING



M/s. Ashok Electrical Corporation
M.C. 12615-M.S. 30999
12 APR 2023

ASHOK ELECTRICAL CORPORATION
M.C.-12615
EST 1998
M.S.-30999

PUNE VIDYARTHI GRIHA's
COLLEGE OF SCIENCE & TECHNOLOGY
Affiliated to University of Mumbai
CTS. NO.218, Br. Nath Pai Nagar, Ghatkopar (East), Mumbai – 400077. Tel: 2506 9118
Email: pvgcst@yahoo.com Website: www.pvgcst.in.

Policy on Green Audit and Green Environment

The term "Green" means eco-friendly or not damaging the environment

The college has set up environmental committee to give guideline measures an implementation of various aspects of green initiatives.

Policy for Green environment:

1) Awareness Programs

To conduct awareness programs regarding environment Sustenance and maintenance in the form of lectures, celebration environmental policy of college. To train non-teaching and housekeeping staff to develop skills of handling separation of waste in campus.

2) Waste Management Implementation practices:

a) To provide different colour waste bins for waste separation.
b) Regular disposal of E-waste and solid waste.
c) Avoid purchase of single use disposable items.

3) Campaign

a) The college has established a green campus environmental ethic awareness.
b) Organized awareness programs for the student's faculty and society

Policy on Energy audit

- Activate power management features on your computer and monitors so that it will go into low power sleep mode when you are not working on it.
- Turn off your monitor when you leave your table.
- Whenever possible shut down rather than logging off.
- Turn off unnecessary lights and use day light instead.
- Use LED or compact fluorescent bulbs.
- keep lights off in your conference rooms, classrooms, lecture halls when they are not in use

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

CERTIFICATE OF ENVIRONMENTAL AUDIT

This is to certify that

Pune Vidyarthi Griha's College of Science & Technology

(Affiliated to University of Mumbai)

Located at CTS No. 218, Br. Nath Pai Nagar,
Ghatkopar (E) Mumbai

Has successfully undergone for Environmental Audit to establish Eco-friendly practices for conservation of environment at all stages. The environmental awareness initiatives taken by the college are substantial to meet all the standards for maintaining a sustainable environment in the college premises.

Dharitree Enviro Research Centre THANE

(Term of validity)
June, 1st 2017 - May, 31st 2019

Date of Issue: 4th June 2017

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

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Has conducted detailed Green Audit of their college and has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified based on the report submitted and was found to be satisfactory.

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(Term of validity)
June, 1st 2017 - May, 31st 2019

Date of Issue: 4th June 2017

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

DHARITREE
ENVIRO RESEARCH CENTRE

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Dharitree Enviro Research Centre
THANE

(Term of validity)
June, 1st 2019 - May, 31st 2021

Date of Issue: 3rd June 2019

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

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THANE

(Term of validity)
June, 1st 2021 - May, 31st 2023

Date of Issue: 6th June 2021

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Dharitree Enviro Research Centre

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(Term of validity)
June, 1st 2021 - May, 31st 2023

Date of Issue: 6th June 2021

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

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ENVIRO REBEARCH CENTRE

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THANE

(Term of validity)
June, 1st 2017 - May, 31st 2019

Date of Issue: 4th June 2017

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

Dr. Pramod B. Salaskar
Mob : +91-9969410612
+91-9967002502

DHARITREE ENVIRO RESEARCH CENTRE

B/1302, Runwal Regency, Opp. to Petrol Pump, Majiwada village Road, Thane (W) -400 601 - India
Email : pramodsalaskar.64@gmail.com / powai_mumbai@yahoo.co.in

Pune Vidyarthi Griha's
College of Science & Technology

GREEN AUDIT REPORT

(2017 – 2019)

For Dharitree Enviro Research Centre

Malaskar
Proprietor

Preface....

The term "Green" means eco-friendly or not damaging the environment. "Green Auditing", an umbrella term, is known by another name „Environmental Auditing". In auditing literature both the terms are being used interchangeably. To Implement the green audit other important aspects such as objective of green audit, drivers of green audit, future scope, benefits, and advantages are necessary to understand.

Concept of green audit is not limited to the decorating the college campus but also corporate responsibility, with quality education keep college environment eco-friendly with its facilities. Attempt has been made on that direction by landscaping and plantation, solid waste management, recycling of waste water, conservation of energy, water conservation, rainwater harvesting and minimum of usage of paper.

With keeping this view our campus is clean and fresh, we try to inculcate value of surrounding environment amongst the students through Environmental awareness activities like nature club, NSS", Quiz competition on environment,

Flower Arrangement, Gardening development and nursery management course, Production of vermicomposting from solid waste and activity like Competition on Preparation of "Best from Waste", preparation of trenches and plantation of tree sapling on the campus is maintaining by the student of College.

Because of the greenery and eco-friendly sustainable environment, college campus becomes more charming, refreshing and healthier. This increases efficiency of every element of the college.

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Acknowledgement....

We take this opportunity to express our gratitude towards the president of the Institute, Hon. President, **Shri. Sunil Redekar** and Hon. Secretary of College Development Committee, **Dr. Rajendar Kambale**, & Hon. Director **Shri. Rajendra Borade** and all Hon. Members of the CDC committee of the college for their valuable guidance, continuous encouragement, generous gift of time with constructive critism & suggestion during the composition of work of entire," Green Audit Report- 2017-19".

We also express our deep sense of gratitude to our Hon. Principal, **Dr B.G Kulkarni**, who inspired and encouraged us throughout the work. We gratefully acknowledge the help provided by him on several occasions.

It is right time to express our deep sense of gratitude to our college **Prof. Seema Gargote, Prof. Trupti Rongare** and **Prof. Priya Jadhav** for their continuous help, inspiring resoluteness and sensible suggestion without any reservation whenever we approached throughout investigation.

We are thankful to **Dr. Ajay Kumar Pathak** for his valuable guidance.

We are equally thankful to our colleagues' teachers and students of **B.Sc CS/B.Sc. IT/ B.Com/ BMS** which helps during data collection and identification of plants.

Coordinator,

Green Audit Report

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

GREEN AUDIT REPORT COMMITTEE

(2017 – 2019)

Sr. No.	Name	Designation	Committee Role	Signature
1	Dr. B.G. Kulkarni	Principal	Coordinator	
2	Dr. Pramod Salaskar	Dharitree Enviro Research Centre	External Auditor	
3	Prof. Seema Gargote	Asst. Professor	Internal Auditor	
4	Prof. Trupti Rongare	Asst. Professor	Internal Auditor	
5	Prof. Priya Jadhav	Asst. Professor	Internal Auditor	

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Principal Message....

I express my hearty wishes for success of this publication of 'Green Audit 2017- 2019'. Efforts made by our institution and senior college for the protection of environment and biodiversity conservation is really unique, which may become pilot project gives message about to avoid the for coming natural disaster like global warming, land sliding etc. We try to maintain environment eco-friendly through activities like landscaping and plantation, rain water harvesting, solid waste Management, sewage treatment plant, energy conservation, e-waste management, and paperless technology to minimize the use of paper basically prepare from the plants.

The ultimate aim of our institution to develop youth as fertile probe who understand for their social responsibilities.

I express my hearty wishes for success of this movement of Green Audit Report for the new beginning of the conservation from the doorstep of the people.

Our green audit reflects assessment and achievement of vision and mission of the college.

Dr. B .G. Kulkarni

Principal

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

INDEX

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(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

Date of Issue: 4th June 2017

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

History:

An education only can provide, the stability, and one could gain name and fame in the society, an education is a wealth and becomes a treasure to the ones, who do not have money, and to the ones, who have a clever brain and ambitions in mind. "Anath Vidyarthi Griha" came into existence in the year 1909 on May 12th, having the same motto and with the aspiration to educate the poor and destitute needy children. There were many of the students, who used to work hard and some of them would get the charitable offerings from the society, but there was not a home or shelter for them and even a school where they would get an education. Eventually, this task was shouldered idealistically by "Pune Vidyarthi Griha".

Considering the increase in the volume of the students, in year 1912, the arrangement was made to stay for the students at Nagnath Par in the palatial house owned by Shri. Balukaka Kanitkar. It was a time that the school at Yeotmal was closed down by the Government, and so Shri Balukaka Kanitkar had become a part of the Institute. Shri. Balukaka Kanitkar had a wish that this institute should gain its name and fame not only giving education and shelter to the needy and destitute children, but also to hold a fame for offering "National Education", i. e. My Country, My Religion, My Language", which indulges into the fields such as Physical, Intellectual and Professional Education. In the year 1916-17, Shri. Balukaka Kanitkar had shifted one of its branches at Chinchwad. Shri Babasaheb Patwardhan had donated his palatial house of Kasaba Peth to the Institute, and **Shri Dadasaheb Ketkar** had opened the second branch in a row.

The Pune Vidyarthi Griha's College of Science & Technology was established in the year 2008. It is affiliated to University of Mumbai and Recognized by Govt. of Maharashtra in 2008. Initially the permission was granted only for B. Sc. Information Technology & B.Sc. Computer Science Course. Observing the excellence of the college, the University granted the permission to the college to start B.com, BMS & BBI course in the year 2017 – 18.

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Location:

Pune Vidyarthi Griha's College of Science & Technology located at CTS No. 218, Br. Nath Pai Nagar, Ghatkopar-E Ghatkopar (East) Mumbai-400077, Maharashtra, India.

Figure: Schematic representation of Pune Vidyarthi Griha's College of Science & Technology Campus

Country	India
State	Maharashtra
District	Mumbai
City	Mumbai
Area	Ghatkopar East
Elevation	20 meter
Population (2017)	6.2 lakh
Area Code	+91 – 022
Official Languages	Marathi, English
College Campus area:	Approximately 9,586.65sq. meter
Perimeter	Approximately 467.3 meter
Location:	19°04.197'N; 72°54.236'E

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Objectives of the Green Audit :

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

The main objectives of carrying out Green Audit are:

1. To introduce and aware students to real concerns of environment and its sustainability
2. To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use on the campus.
3. To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requires high cost.
4. To bring out a status report on environmental compliance.

Methodology:

Green audit of the campus is prepared by various methods including different tools such as questionnaire, physical inspection of the campus, observation and review of the documents, interviewing key persons and data analysis, observation and recommendations. The study covered the following areas to summaries the present status of environmentally sustainable management on the campus.

- Landscape and plantation
- Solid Waste management
- Sewage Waste management
- E-waste management
- Energy Conservation
- Rain water harvesting
- Environmental activities

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TABLE . FLORAL DIVERSITY (TREE) OBSERVED IN THE COLLEGE CAMPUS

Tree No.	Botanical name	Local Name	Lat./Long (Location)
1	*Terminalia catapa*	Deshibadam	19°04.216'N ; 72°54.240'E
2	*Polyalthia longifolia*	Ashoka	19°04.216'N ; 72°54.238'E
3	*Terminalia catapa*	Deshibadam	19°04.216'N ; 72°54.238'E
4	*Dypsis lutescens*	Aareca Palm	19°04.215'N ; 72°54.223'E
5	*Polyalthia longifolia*	Ashoka	19°04.211'N ; 72°54.234'E
6	*Terminalia catapa L.*	Deshibadam	19°04.211'N ; 72°54.232'E
7	*Terminalia catapa L.*	Deshibadam	19°04.211'N ; 72°54.233'E
8	*Polyalthia longifolia*	Ashoka	19°04.210'N ; 72°54.232'E
9	*Terminalia catapa L.*	Deshibadam	19°04.197'N ; 72°54.223'E
10	*Cocos nucifera L.*	Naral	19°04.204'N ; 72°54.229'E
11	*Tectona grandis*	Sagwan	19°04.194'N ; 72°54.220'E
12	*Cocos nucifera L.*	Naral	19°04.193'N ; 72°54.219'E
13	*Tectona grandis*	Sagwan	19°04.193'N ; 72°54.217'E
14	*Cocos nucifera*	Naral	19°04.193'N ; 72°54.217'E
15	*Tectona grandis*	Sagwan	19°04.192'N ; 72°54.223'E
16	*Cocos nucifera*	Naral	19°04.193'N ; 72°54.215'E
17	*Tectona grandis*	Sagwan	19°04.193'N ; 72°54.217'E
18	*Mangifera indica L.*	Amba	19°04.185'N ; 72°54.213'E
19	*Tectona grandis*	Sagwan	19°04.185'N ; 72°54.213'E
20	*Neolamarckia cadamba*	Kadam	19°04.185'N ; 72°54.213'E
21	*Cocos nucifera*	Naral	19°04.183'N ; 72°54.213'E
22	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.216'E
23	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.219'E
24	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.212'E
25	*Hyophorbe lagenicaulis*	Bottle palm	19°04.183'N ; 72°54.214'E
26	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.211'E
27	*Tectona grandis*	Sagwan	19°04.182'N ; 72°54.218'E

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58	*Terminalia catapa L.*	Deshibadam	19°04.185'N ; 72°54.194'E
59	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.194'E
60	*Polyalthia longifolia*	Ashoka	19°04.186'N ; 72°54.194'E
61	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.197'E
62	*Hyophorbe lagenicaulis*	Bottle palm	19°04.184'N ; 72°54.269'E
63	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.269'E
64	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.271'E
65	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.276'E
66	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.283'E
67	*Mangifera indica L.*	Amba	19°04.185'N ; 72°54.294'E
68	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.194'E
69	*Tectona grandis*	Sagwan	19°04.185'N ; 72°54.194'E
70	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.194'E
71	*Artocarpus heterophyllus Lamk.*	Phanas	19°04.185'N ; 72°54.197'E
72	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.195'E
73	*Moringa oleifera*	Shevga	19°04.185'N ; 72°54.199'E
74	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.202'E
75	*Hyophorbe lagenicaulis*	Bottle palm	19°04.185'N ; 72°54.204'E
76	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.209'E
77	*Ficus racemosa L.*	Umber	19°04.185'N ; 72°54.213'E
78	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.218'E
79	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.223'E
80	*Delonix regia*	Gulmohar	19°04.185'N ; 72°54.225'E
81	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.229'E
82	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.234'E
83	*Hyophorbe lagenicaulis*	Bottle palm	19°04.185'N ; 72°54.237'E
84	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.239'E
85	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.241'E
86	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.243'E
87	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.247'E

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88	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.247'E
89	*Aegle marmelos*	Bel	19°04.182'N ; 72°54.244'E
90	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.240'E
91	*Hyophorbe lagenicaulis*	Bottle palm	19°04.182'N ; 72°54.235'E
92	*Murraya koenigii*	Kadi Patta	19°04.184'N ; 72°54.253'E
93	*Peltophorum pterocarpum*	Sonmohar	19°04.190'N ; 72°54.270'E
94	*Bombax ceiba L.*	Katesavar	19°04.184'N ; 72°54.249'E
95	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.241'E
96	*Peltophorum pterocarpum*	Sonmohar	19°04.192'N ; 72°54.267'E
97	*Ficus benghalensis L.*	Vad	19°04.192'N ; 72°54.273'E
98	*Azadirachta indica*	Neem	19°04.192'N ; 72°54.273'E
99	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
100	*Azadirachta indica*	Neem	19°04.193'N ; 72°54.269'E
101	*Plumeria obtusa L.*	Chapha	19°04.193'N ; 72°54.268'E
102	*Carica papaya*	Pappayi	19°04.192'N ; 72°54.274'E
103	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
104	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
105	*Annona squamosa*	Sitphal	19°04.189'N ; 72°54.255'E
106	*Cocos nucifera L.*	Naral	19°04.198'N ; 72°54.264'E
107	*Tectona grandis*	Sagwan	19°04.200'N ; 72°54.112'E
108	*Cocos nucifera L.*	Naral	19°04.202'N ; 72°54.243'E
109	*Cocos nucifera L.*	Naral	19°04.202'N ; 72°54.245'E
110	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.206'E
111	*Mangifera indica L.*	Amba	19°04.200'N ; 72°54.203'E
112	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.176'E
113	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.189'E
114	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.192'E
115	*Ficus racemosa L.*	Umber	19°04.200'N ; 72°54.196'E
116	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.184'E
117	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.169'E

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118	*Cocos nucifera L.*	Naral	19°04.206'N ; 72°54.282'E
119	*Pongamia pinnata*	Karanj	19°04.205'N ; 72°54.279'E
120	*Polyalthia longifolia*	Ashoka	19°04.207'N ; 72°54.223'E
121	*Peltophorum pterocarpum*	Sonmohar	19°04.208'N ; 72°54.237'E
122	*Polyalthia longifolia*	Ashoka	19°04.208'N ; 72°54.249'E

Table: Species wise count of trees

Sr. No.	Botanical Name	Local Name	Family	Native/ Introd. / Nt.	Vegetation type	No. of individuals plants
1	*Aegle marmelos*	Bel	Rutaceae	Native	Deciduous	1
2	*Annona squamosa*	Sitaphal	Annonaceae	Nt	Evergreen	3
3	*Artocarpus heterophyllus*	Phanus	Moraceae	Native	Evergreen	1
4	*Azadirachta indica*	Neem	Meliaceae	Native	Evergreen	2
5	*Bombax ceiba*	Katesavar	Malvaceae	Native	Deciduous	1
6	*Carica papaya*	Pappayi	Caricaceae	Native	Evergreen	1
7	*Cocos nucifera*	Naral	Arecaceae	Native	Evergreen	47
8	*Delonix regia*	Gulmohar	Caesalpiniaceae	Nt	Evergreen	1
9	*Dypsis lutescens*	Areca palm	Arecaceae	Nt	Evergreen	1
10	*Eucalyptus grandis*	Neelgiri	Myrtaceae	Nt	Evergreen	3
11	*Ficus benghalensis*	Vad	Moraceae	Native	Evergreen	1
12	*Ficus racemosa*	Umber	Moraceae	Native	Evergreen	3
13	*Hyophorbe lagenicaulis*	Bottle Palm	Arecaceae	Nt	Evergreen	7
14	*Mangifera indica*	Amba	Anacardiaceae	Native	Evergreen	4
15	*Moringa oleifera*	Shevga	Moringaceae	Native	Deciduous	1
16	*Murraya koenigii*	Kaddi patta	Rutaceae	Native	Deciduous	1
17	*Neolamarckia cadamba*	Kadamb	Rubiacea	Native	Evergreen	1
18	*Peltophorum pterocarpum*	Sonmohar	Caesalpiniaceae	Introd	Evergreen	3
19	*Plumeria obtusa*	Chapha	Apocynaceae	Introd	Evergreen	1
20	*Polyalthia longifolia*	Ashoka	Annonaceae	Native	Evergreen	14
21	*Pongamia pinnata*	Karanj	Fabaceae	Native	Deciduous	1
22	*Tectona grandis*	Sagwan	Verbenaceae	Native	Deciduous	18
23	*Terminalia catapa*	Deshibadam	Combretaceae	Native	Deciduous	6
					Total	122

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Table 2: Avifaunal diversity observed immediate surroundings of the College Campus

Sr. No.	Family	Scientific Name	Common Name	IUCN Status	IWPA Assessment	Feeding Habit	Dwelling Status
1	Corvidae	*Corvus splendens*	House Crow	Least Concern ver 3.1	Schedule - V	Omnivorous	R
2	Pycnonotidae	*Pycnonotus cafer*	Red Vented Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
3		*Pycnonotus jocosus*	Red Whiskered Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
4	Meropidae	*Merops orientalis*	Small Bee Eater	Least Concern ver 3.1	--	Insectivorous	R
5	Halcyonidae	*Halcyon smyrnensis*	White-throated Kingfisher	Least Concern ver 3.1	Schedule -IV	Piscivorous & Insectivorous	R
6	Columbidae	*Columba livia*	Blue Rock Pigeon	Least Concern ver 3.1	--	Granivorous	R
7	Dicruridae	*Dicrurus macrocercus*	Black Drongo	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
8	Sturnidae	*Acridotheres tristis*	Common Myna	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
9	Muscicapidae	*Copsychus saularis*	Oriental Magpie-Robin	Least Concern ver 3.1	--	Insectivorous & Herbivorous	R
10	Cuculidae	*Centropus sinensis*	Greater Coucal	Least Concern ver 3.1	Schedule -IV	Carnivorous	R

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SOLID WASTE MANAGEMENT

Aim :-

1) Scientific disposal of solid waste

2) Protection of human health and environment

Objective:-

1] To increase recycling level

2] To reduce organic waste in landfills

3] To control air, water, soil pollution

4] Production of green manure and vermicompost.

Activity / Observation :

Solid waste is separated as dry and wet. Dry waste includes plastic, glass, paper, metals, wood and related product. Wet waste typically refers to organic waste usually generated as canteen waste, plant debris. Dry waste is separated and it is given for its reuse and recycling to the recycler agency to avoid the pollution. Wet waste is also known as organic waste. It is obtain from canteen , fallen leaves , litter, ort, trash etc. produce in this campus if it is not disposed properly it creates air pollution, to avoid this we have implemented solid organic waste management activity, we run it at two level one is decomposition of solid waste through the composting in pit, vermicompost form solid organic waste and second is training to the students, farmers about production of organic manure like vermicompost, production of mushroom from the solid organic agricultural waste which ultimately conversion of Best from Waste, further the best biofertilizer is used for plants of college campus which enhances greenery leads environment clean and fresh.

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ENVIRONMENT AWARENESS PROGRAM

Aim and objective:

- To plan, organize and implement programmes like landscape and plantation, water management & conservation, and rain water harvesting.
- To provide education that prepares students for leadership and social responsibility teaching them to think and communicate effectively and develop a global awareness.
- To introduce environmental education programmes for strengthen the existing ecological and environment related training infrastructure.
- To organize training programmes for vocationalisation of environmental careers.
- To strengthen Global Environmental Education Programmes for standardization of greening activities.
- To introduce environmental education programmes in strengthen the existing ecological and environment related training infrastructure.
- To make special plans for the studies vermiculture, plantation, nursery development, water & energy conservation and management, rain water harvesting and other related fields.
- To provide environmental education that prepares students for leadership and social responsibility by teaching them to think and communicate effectively and develop global environmental awareness and sensitivity.

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Ventilation and Indoor Air Quality (IAQ) :

- There is adequate size of windows in college class rooms as well as in corridor which allow sufficient light and ventilation.
- Corridors are wide with good ceiling height
- Classrooms also have high ceiling with wide doors. Windows are kept open to receive sunlight.
- All classrooms are provided with ceiling fans for proper air circulation.

Water Efficiency & Wastewater Management:

- Two RO filtration plant has been installed on main building to provide clean drinking water in campus.
- No water leakage observed anywhere in Campus.
- The students have awareness for water conservation.

Energy Efficiency:

- All the CRT monitors of computers have been replaced with LED monitors.
- Computers are kept switched off when not required to operate.
- Save energy posters/stickers such as "Switch off all electrical equipment's when not required to use" at maximum locations to spread energy conservation awareness.
- All conventional incandescent tube lights are replaced with LED tube lights.

Ambiance and Acoustic Control:

- Tree plantation in and around the campus help in reducing ambient temperature and acoustic control.
- The college is located away from road side so there is no major noise pollution.

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Waste Management:

Paper waste

- Being academic institution, waste paper is the main solid waste generated in the premises. The institution has taken steps to minimize usage of papers by implementing e-notice board.
- Both sides of the pages are utilized to avoid excess paper usages.
- Paper wastes are not directly disposed of in dustbin, it is given to local vendors for recycling and reuse.

e-waste

- The college has taken initiative to segregate and collect e-wastes and stored at designated place for its proper disposal.

Canteen and Solid Waste Management

- Wet and dry wastes are segregated in college canteens and directly handed over to the concern Municipal Corporation for disposal.
- Bio-degradable and non-biodegradable waste is generated labs, are also segregated and disposed of through Municipal Corporation

Green initiatives:

- Trees are planted in the periphery of the ground and pathway sides in proper manner.
- The college has taken initiative for wide range of activities such as Swatch Bharat Campaign, poster competition, environment campaign for plantation, awareness on water conservation, essay competition and energy conservation to inculcate ecological awareness.

Access, Maintenance and emergency plan of the Building:

- There is wide and easy access to the college campus from the main road.
- Staircases are provided with handrails.
- The main building and extension building structures are well maintained.
- Portable Fire Extinguishers are placed at prominent locations to handle minor fire.
- Good housekeeping practices are followed.

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Observation:

- Many indoor plants were observed on 1st, 2nd and 3rd floor of the college. Many flowering trees, which bloom in different seasons, in front of the large trees and along the periphery were planted.
- Tank top cover of all drinking water coolers should be locked and date of last cleaning and due date to be displayed.
- Speed Breaker on both side of Main gate and Display Board College ahead No Honking are observed on main road in front of college gate.
- Fire Extinguishers are placed on every floor and in Labs. Suitable signage for fire/emergency exit and assembly points to be placed where required.

Suggestion/Recommendations:

- Water recycling/sewage treatment plants may be installed and recycled water to be used for gardening/horticulture and toilet flushing etc.
- Energy meter may be provided separately for each department to monitor and control monthly electricity consumption and records to be maintained.
- All CFL may be replaced with LED lamps to save energy.
- Annual consumption target for paper may be given to the department as per requirement and shall be monitored with records to understand the impact of digitization in the college.
- Students may be involved to practice on reduction of electricity consumption and various methods to reduce paper consumption.
- Internal notices and communications can be done through e- mail/SMS to reduce paper uses.

Dharitree Enviro Research Centre THANE

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For Dharitree Enviro Research Centre

Proprietor

PHOTOGALLARY

Green belt in the college premises

Fire Extinguishers

Approach Road to College

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

CERTIFICATE OF GREEN AUDIT

This is to certify that

Pune Vidyarthi Griha's College of Science & Technology

(Affiliated to University of Mumbai)

Located at CTS No. 218, Br. Nath Pai Nagar,
Ghatkopar (E) Mumbai

Has conducted detailed Green Audit of their college and has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified based on the report submitted and was found to be satisfactory.

Dharitree Enviro Research Centre
THANE

(Term of validity)
June, 1st 2019 - May, 31st 2021

Date of Issue: 3rd June 2019

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

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Pune Vidyarthi Griha's
College of Science & Technology

GREEN AUDIT REPORT

(2019 – 2021)

For Dharitree Enviro Research Centre

Salaskar

Proprietor

PHOTOGALLARY

Fire Extinguishers

Sports facilities at premises

Green belt around the college premises

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Preface....

The term "Green" means eco-friendly or not damaging the environment. "Green Auditing" an umbrella term, is known by another name „Environmental Auditing". In auditing literature both the terms are being used interchangeably. To implement the green audit other important aspects such as objective of green audit, drivers of green audit, future scope, benefits, and advantages are necessary to understand.

Concept of green audit is not limited to the decorating the college campus but also corporate responsibility, with quality education keep college environment eco-friendly with its facilities. Attempt has been made on that direction by landscaping and plantation, solid waste management, recycling of waste water, conservation of energy, water conservation, rainwater harvesting and minimum of usage of paper.

With keeping this view our campus is clean and fresh, we try to inculcate value of surrounding environment amongst the students through Environmental awareness activities like nature club, NSS", Quiz competition on environment,

Flower Arrangement, Gardening development and nursery management course, Mushroom cultivation course, Production of vermicomposting from solid waste and activity like Competition on Preparation of „Best from Waste", preparation of trenches and plantation of tree sapling on the campus is maintaining by the student of College.

Because of the greenery and eco-friendly sustainable environment, college campus becomes more charming, refreshing and healthier. This increases efficiency of every element of the college.

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Acknowledgement....

We take this opportunity to express our gratitude towards the president of the Institute, **Shri. Sunil Redekar** and Hon. Secretary of College Development Committee, **Shri. Rajendar Kambale**, & Hon. Director **Shri. Rajendra Borade** and all Hon. Members of the CDC committee of the college for their valuable guidance, continuous encouragement, generous gift of time with constructive critism & suggestion during the composition of work of entire," Green Audit Report- 2019-21".

We also express our deep sense of gratitude to our Hon. Principal, **Dr Ajay Kumar Pathak**, who inspired and encouraged us throughout the work. We gratefully acknowledge the help provided by him on several occasions.

It is right time to express our deep sense of gratitude to our college **Prof. Meena Patel, Prof. Sadhana Mishra,** and **Prof. Gaurav Singh** for their continuous help, inspiring resoluteness and sensible suggestion without any reservation whenever we approached throughout investigation.

We are thankful to **Dr. B.G Kulkarni** , President of Alumni Pune Vidyarthi Griha for his valuable guidance.

We are equally thankful to our colleagues' teachers and students of **B.Sc CS/B.Sc. IT/ B.Com/ BMS** which helps during data collection and identification of plants.

Coordinator,

Green Audit Report

T/C Principal
Pune Vidarthi Gnha's
College of Science & Technology

Principal Message....

I express my hearty wishes for success of this publication of 'Green Audit 2019- 2021'. Efforts made by our institution and senior college for the protection of environment and biodiversity conservation is really unique, which may become pilot project gives message about to avoid the for coming natural disaster like global warming, land sliding etc. We try to maintain environment eco-friendly through activities like landscaping and plantation, rain water harvesting, solid waste Management, sewage treatment plant, energy conservation, e-waste management, and paperless technology to minimize the use of paper basically prepare from the plants.

The ultimate aim of our institution to develop youth as fertile probe who understand for their social responsibilities.

I express my hearty wishes for success of this movement of Green Audit Report for the new beginning of the conservation from the doorstep of the people.

Our green audit reflects assessment and achievement of vision and mission of the college.

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

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GREEN AUDIT REPORT COMMITTEE

(2019 – 2021)

Sr.No.	Name	Designation	Committee Role	Signature
1	Dr. Ajay Kumar Pathak	I/C Principal	Coordinator	
2	Dr. Pramod Salaskar	Dharitree Enviro Research Centre	External Auditor	
3	Prof. Meena Patel	Asst. Professor	Internal Auditor	
4	Prof. Sadhana Mishra	Asst. Professor	Internal Auditor	
5	Prof. Gaurav Singh	Asst. Professor	Internal Auditor	

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DHARITREE ENVIRO RESEARCH CENTRE

CERTIFICATE OF GREEN AUDIT

This is to certify that

Pune Vidyarthi Griha's College of Science & Technology

(Affiliated to University of Mumbai)

Located at CTS No. 218, Br. Nath Pai Nagar,
Ghatkopar (E) Mumbai

Has conducted detailed Green Audit of their college and has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified based on the report submitted and was found to be satisfactory.

Dharitree Enviro Research Centre THANE

(Term of validity)
June, 1st 2019 - May, 31st 2021

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

Date of Issue: 3rd June 2019

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History:

An education only can provide, the stability, and one could gain name and fame in the society, an education is a wealth and becomes a treasure to the ones, who do not have money, and to the ones, who have a clever brain and ambitions in mind. "Anath Vidyarthi Griha" came into existence in the year 1909 on May 12th, having the same motto and with the aspiration to educate the poor and destitute needy children. There were many of the students, who used to work hard and some of them would get the charitable offerings from the society, but there was not a home or shelter for them and even a school where they would get an education. Eventually, this task was shouldered idealistically by "Pune Vidyarthi Griha".

Considering the increase in the volume of the students, in year 1912, the arrangement was made to stay for the students at Nagnath Par in the palatial house owned by Shri. Balukaka Kanitkar. It was a time that the school at Yeotmal was closed down by the Government, and so Shri Balukaka Kanitkar had become a part of the Institute. Shri. Balukaka Kanitkar had a wish that this institute should gain its name and fame not only giving education and shelter to the needy and destitute children, but also to hold a fame for offering "National Education", i. e. My Country, My Religion, My Language", which indulges into the fields such as Physical, Intellectual and Professional Education. In the year 1916-17, Shri. Balukaka Kanitkar had shifted one of its branches at Chinchwad. Shri Babasaheb Patwardhan had donated his palatial house of Kasaba Peth to the Institute, and **Shri Dadasaheb Ketkar** had opened the second branch in a row.

The Pune Vidyarthi Griha's College of Science & Technology was established in the year 2008. It is affiliated to University of Mumbai and Recognized by Govt. of Maharashtra in 2008. Initially the permission was granted only for B. Sc. Information Technology & B.Sc. Computer Science Course. Observing the excellence of the college, the University granted the permission to the college to start B.com, BMS & BBI course in the year 2017 – 18.

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Location:

Pune Vidyarthi Griha's College of Science & Technology located at CTS No. 218, Br. Nath Pai Nagar, Ghatkopar-E Ghatkopar (East) Mumbai-400077, Maharashtra, India.

Figure Schematic representation of Pune Vidyarthi Griha's College of Science & Technology Campus

Country	India
State	Maharashtra
District	Mumbai
City	Mumbai
Area	Ghatkopar East
Elevation	20 meter
Population	**Population (2020):** 146056
	Male Population: 76084 **Female Population:** 69972
Area Code	+91 – 022
Official Languages	Marathi, English
College Campus area:	Approximately 9,586.65q. meter
Perimeter	Approximately 467.3 meter
Location:	19°04.197'N; 72°54.236'E

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Objectives of the Green Audit :

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

The main objectives of carrying out Green Audit are:

1. To introduce and aware students to real concerns of environment and its sustainability
2. To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use on the campus.
3. To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requires high cost.
4. To bring out a status report on environmental compliance.

Methodology:

Green audit of the campus is prepared by various methods including different tools such as questionnaire, physical inspection of the campus, observation and review of the documents, interviewing key persons and data analysis, observation and recommendations. The study covered the following areas to summaries the present status of environmentally sustainable management on the campus.

- Landscape and plantation
- Solid Waste management
- Sewage Waste management
- E-waste management
- Energy Conservation
- Rain water harvesting
- Environmental activities

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TABLE . FLORAL DIVERSITY (TREE) OBSERVED IN THE COLLEGE CAMPUS

Tree No.	Botanical name	Local Name	Lat./Long (Location)
1	*Terminalia catapa*	Deshibadam	19°04.216'N ; 72°54.240'E
2	*Polyalthia longifolia*	Ashoka	19°04.216'N ; 72°54.238'E
3	*Terminalia catapa*	Deshibadam	19°04.216'N ; 72°54.238'E
4	*Dypsis lutescens*	Aareca Palm	19°04.215'N ; 72°54.223'E
5	*Polyalthia longifolia*	Ashoka	19°04.211'N ; 72°54.234'E
6	*Terminalia catapa L.*	Deshibadam	19°04.211'N ; 72°54.232'E
7	*Terminalia catapa L.*	Deshibadam	19°04.211'N ; 72°54.233'E
8	*Polyalthia longifolia*	Ashoka	19°04.210'N ; 72°54.232'E
9	*Terminalia catapa L.*	Deshibadam	19°04.197'N ; 72°54.223'E
10	*Cocos nucifera L.*	Naral	19°04.204'N ; 72°54.229'E
11	*Tectona grandis*	Sagwan	19°04.194'N ; 72°54.220'E
12	*Cocos nucifera L.*	Naral	19°04.193'N ; 72°54.219'E
13	*Tectona grandis*	Sagwan	19°04.193'N ; 72°54.217'E
14	*Cocos nucifera*	Naral	19°04.193'N ; 72°54.217'E
15	*Tectona grandis*	Sagwan	19°04.192'N ; 72°54.223'E
16	*Cocos nucifera*	Naral	19°04.193'N ; 72°54.215'E
17	*Tectona grandis*	Sagwan	19°04.193'N ; 72°54.217'E
18	*Mangifera indica L.*	Amba	19°04.185'N ; 72°54.213'E
19	*Tectona grandis*	Sagwan	19°04.185'N ; 72°54.213'E
20	*Neolamarckia cadamba*	Kadam	19°04.185'N ; 72°54.213'E
21	*Cocos nucifera*	Naral	19°04.183'N ; 72°54.213'E
22	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.216'E
23	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.219'E
24	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.212'E
25	*Hyophorbe lagenicaulis*	Bottle palm	19°04.183'N ; 72°54.214'E
26	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.211'E

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27	Tectona grandis	Sagwan	19°04.182'N ; 72°54.218'E
28	Tectona grandis	Sagwan	19°04.183'N ; 72°54.227'E
29	Tectona grandis	Sagwan	19°04.183'N ; 72°54.227'E
30	Tectona grandis	Sagwan	19°04.183'N ; 72°54.225'E
31	Tectona grandis	Sagwan	19°04.183'N ; 72°54.219'E
32	Polyalthia longifolia	Ashoka	19°04.183'N ; 72°54.214'E
33	Cocos nucifera L.	Naral	19°04.183'N ; 72°54.209'E
34	Tectona grandis	Sagwan	19°04.183'N ; 72°54.210'E
35	Tectona grandis	Sagwan	19°04.183'N ; 72°54.227'E
36	Cocos nucifera L.	Naral	19°04.183'N ; 72°54.227'E
37	Cocos nucifera L.	Naral	19°04.183'N ; 72°54.227'E
38	Tectona grandis	Sagwan	19°04.182'N ; 72°54.218'E
39	Cocos nucifera L.	Naral	19°04.182'N ; 72°54.218'E
40	Tectona grandis	Sagwan	19°04.182'N ; 72°54.218'E
41	Hyophorbe lagenicaulis	Bottle palm	19°04.182'N ; 72°54.218'E
42	Cocos nucifera L.	Naral	19°04.182'N ; 72°54.218'E
43	Cocos nucifera L.	Naral	19°04.183'N ; 72°54.227'E
44	Polyalthia longifolia	Ashoka	19°04.183'N ; 72°54.227'E
45	Cocos nucifera L.	Naral	19°04.183'N ; 72°54.227'E
46	Cocos nucifera L.	Naral	19°04.183'N ; 72°54.227'E
47	Annona squamosa	Sitphal	19°04.184'N ; 72°54.226'E
48	Cocos nucifera L.	Naral	19°04.184'N ; 72°54.226'E
49	Ficus racemosa L.	Umber	19°04.184'N ; 72°54.221'E
50	Cocos nucifera L.	Naral	19°04.184'N ; 72°54.226'E
51	Annona squamosa	Sitphal	19°04.184'N ; 72°54.230'E
52	Tectona grandis	Sagwan	19°04.184'N ; 72°54.225'E
53	Cocos nucifera L.	Naral	19°04.184'N ; 72°54.218'E
54	Polyalthia longifolia	Ashoka	19°04.184'N ; 72°54.213'E
55	Cocos nucifera L.	Naral	19°04.185'N ; 72°54.207'E
56	Hyophorbe lagenicaulis	Bottle palm	19°04.188'N ; 72°54.242'E

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57	*Tectona grandis*	Sagwan	19°04.188'N ; 72°54.240'E
58	*Terminalia catapa L.*	Deshibadam	19°04.185'N ; 72°54.194'E
59	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.194'E
60	*Polyalthia longifolia*	Ashoka	19°04.186'N ; 72°54.194'E
61	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.197'E
62	*Hyophorbe lagenicaulis*	Bottle palm	19°04.184'N ; 72°54.269'E
63	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.269'E
64	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.271'E
65	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.276'E
66	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.283'E
67	*Mangifera indica L.*	Amba	19°04.185'N ; 72°54.294'E
68	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.194'E
69	*Tectona grandis*	Sagwan	19°04.185'N ; 72°54.194'E
70	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.194'E
71	*Artocarpus heterophyllus Lamk.*	Phanas	19°04.185'N ; 72°54.197'E
72	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.195'E
73	*Moringa oleifera*	Shevga	19°04.185'N ; 72°54.199'E
74	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.202'E
75	*Hyophorbe lagenicaulis*	Bottle palm	19°04.185'N ; 72°54.204'E
76	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.209'E
77	*Ficus racemosa L.*	Umber	19°04.185'N ; 72°54.213'E
78	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.218'E
79	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.223'E
80	*Delonix regia*	Gulmohar	19°04.185'N ; 72°54.225'E
81	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.229'E
82	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.234'E
83	*Hyophorbe lagenicaulis*	Bottle palm	19°04.185'N ; 72°54.237'E
84	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.239'E
85	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.241'E
86	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.243'E

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87	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.247'E
88	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.247'E
89	*Aegle marmelos*	Bel	19°04.182'N ; 72°54.244'E
90	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.240'E
91	*Hyophorbe lagenicaulis*	Bottle palm	19°04.182'N ; 72°54.235'E
92	*Murraya koenigii*	Kadi Patta	19°04.184'N ; 72°54.253'E
93	*Peltophorum pterocarpum*	Sonmohar	19°04.190'N ; 72°54.270'E
94	*Bombax ceiba L.*	Katesavar	19°04.184'N ; 72°54.249'E
95	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.241'E
96	*Peltophorum pterocarpum*	Sonmohar	19°04.192'N ; 72°54.267'E
97	*Ficus benghalensis L.*	Vad	19°04.192'N ; 72°54.273'E
98	*Azadirachta indica*	Neem	19°04.192'N ; 72°54.273'E
99	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
100	*Azadirachta indica*	Neem	19°04.193'N ; 72°54.269'E
101	*Plumeria obtusa L.*	Chapha	19°04.193'N ; 72°54.268'E
102	*Carica papaya*	Pappayi	19°04.192'N ; 72°54.274'E
103	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
104	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
105	*Annona squamosa*	Sitphal	19°04.189'N ; 72°54.255'E
106	*Cocos nucifera L.*	Naral	19°04.198'N ; 72°54.264'E
107	*Tectona grandis*	Sagwan	19°04.200'N ; 72°54.112'E
108	*Cocos nucifera L.*	Naral	19°04.202'N ; 72°54.243'E
109	*Cocos nucifera L.*	Naral	19°04.202'N ; 72°54.245'E
110	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.206'E
111	*Mangifera indica L.*	Amba	19°04.200'N ; 72°54.203'E
112	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.176'E
113	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.189'E
114	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.192'E
115	*Ficus racemosa L.*	Umber	19°04.200'N ; 72°54.196'E
116	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.184'E

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117	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.169'E
118	*Cocos nucifera L.*	Naral	19°04.206'N ; 72°54.282'E
119	*Pongamia pinnata*	Karanj	19°04.205'N ; 72°54.279'E
120	*Polyalthia longifolia*	Ashoka	19°04.207'N ; 72°54.223'E
121	*Peltophorum pterocarpum*	Sonmohar	19°04.208'N ; 72°54.237'E
122	*Polyalthia longifolia*	Ashoka	19°04.208'N ; 72°54.249'E

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Table: Species wise count of trees

Sr. No.	Botanical Name	Local Name	Family	Native/ Introd. / Nt.	Vegeta tion type	No. of Individuals plants
1	*Aegle marmelos*	Bel	Rutaceae	Native	Deciduous	1
2	*Annona squamosa*	Sitaphal	Annonaceae	Nt	Evergreen	3
3	*Artocarpus heterophyllus*	Phanus	Moraceae	Native	Evergreen	1
4	*Azadirachta indica*	Neem	Meliaceae	Native	Evergreen	2
5	*Bombax ceiba*	Katesavar	Malvaceae	Native	Deciduous	1
6	*Carica papaya*	Pappayi	Caricaceae	Native	Evergreen	1
7	*Cocos nucifera*	Naral	Arecaceae	Native	Evergreen	47
8	*Delonix regia*	Gulmohar	Caesalpiniaceae	Nt	Evergreen	1
9	*Dypsis lutescens*	Areca palm	Arecaceae	Nt	Evergreen	1
10	*Eucalyptus grandis*	Neelgiri	Myrtaceae	Nt	Evergreen	3
11	*Ficus benghalensis*	Vad	Moraceae	Native	Evergreen	1
12	*Ficus racemosa*	Umber	Moraceae	Native	Evergreen	3
13	*Hyophorbe lagenicaulis*	Bottle Palm	Arecaceae	Nt	Evergreen	7
14	*Mangifera indica*	Amba	Anacardiaceae	Native	Evergreen	4
15	*Moringa oleifera*	Shevga	Moringaceae	Native	Deciduous	1
16	*Murraya koenigii*	Kaddi patta	Rutaceae	Native	Deciduous	1
17	*Neolamarckia cadamba*	Kadamb	Rubiacea	Native	Evergreen	1
18	*Peltophorum pterocarpum*	Sonmohar	Caesalpiniaceae	Introd	Evergreen	3
19	*Plumeria obtusa*	Chapha	Apocynaceae	Introd	Evergreen	1
20	*Polyalthia longifolia*	Ashoka	Annonaceae	Native	Evergreen	14
21	*Pongamia pinnata*	Karanj	Fabaceae	Native	Deciduous	1
22	*Tectona grandis*	Sagwan	Verbenaceae	Native	Deciduous	18
23	*Terminalia catapa*	Deshibadam	Combretaceae	Native	Deciduous	6
					Total	122

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Table 2: Avifaunal diversity observed Immediate surroundings of the College Campus

Sr No.	Family	Scientific Name	Common Name	IUCN Status	IWPA Assessment	Feeding Habit	Dwelling Status
1	Corvidae	*Corvus splendens*	House Crow	Least Concern ver 3.1	Schedule - V	Omnivorous	R
2		*Corvus macrorhynchos*	Jungle Crow	Least Concern ver 3.1	--	Omnivorous	R
3	Pycnonotidae	*Pycnonotus cafer*	Red Vented Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
4		*Pycnonotus jocosus*	Red Whiskered Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
5	Meropidae	*Merops orientalis*	Small Bee Eater	Least Concern ver 3.1	--	Insectivorous	R
6	Halcyonidae	*Halcyon smyrnensis*	White-throated Kingfisher	Least Concern ver 3.1	Schedule -IV	Piscivorous & Insectivorous	R
7	Columbidae	*Streptopelia chinensis*	Spotted Dove	Not Assessed	Schedule -IV	Granivorous	R
8		*Columba livia*	Blue Rock Pigeon	Least Concern ver 3.1	--	Granivorous	R
9	Dicruridae	*Dicrurus macrocercus*	Black Drongo	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
10	Sturnidae	*Acridotheres tristis*	Common Myna	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
11	Muscicapidae	*Copsychus saularis*	Oriental Magpie-Robin	Least Concern ver 3.1	--	Insectivorous & Herbivorous	R
12	Cuculidae	*Centropus sinensis*	Greater Coucal	Least Concern ver 3.1	Schedule -IV	Carnivorous	R

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SOLID WASTE MANAGEMENT

Aim :-

1) Scientific disposal of solid waste

2) Protection of human health and environment

Objective:-

1) To increase recycling level

2) To reduce organic waste in landfills

3) To control air, water, soil pollution

4) Production of green manure and vermicompost.

Activity / Observation :

Solid waste is separated as dry and wet. Dry waste includes plastic, glass, paper, metals, wood and related product. Wet waste typically refers to organic waste usually generated as canteen waste, plant debris. Dry waste is separated and it is given for its reuse and recycling to the recycler agency to avoid the pollution. Wet waste is also known as organic waste. It is obtain from canteen , fallen leaves , litter, ort, trash etc. produce in this campus if it is not disposed properly it creates air pollution, to avoid this we have implemented solid organic waste management activity, we run it at two level one is decomposition of solid waste through the composting in pit, vermicompost form solid organic waste and second is training to the students, farmers about production of organic manure like vermicompost, production of mushroom from the solid organic agricultural waste which ultimately conversion of Best from Waste, further the best biofertilizer is used for plants of college campus which enhances greenery leads environment clean and fresh.

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ENVIRONMENT AWARENESS PROGRAM

Aim and objective:

- To plan, organize and implement programmes like landscape and plantation, water management & conservation, and rain water harvesting.
- To provide education that prepares students for leadership and social responsibility teaching them to think and communicate effectively and develop a global awareness.
- To introduce environmental education programmes for strengthen the existing ecological and environment related training infrastructure.
- To organize training programmes for vocationalisation of environmental careers.
- To strengthen Global Environmental Education Programmes for standardization of greening activities.
- To introduce environmental education programmes in strengthen the existing ecological and environment related training infrastructure.
- To make special plans for the studies vermiculture, plantation, nursery development, water & energy conservation and management, rain water harvesting and other related fields.
- To provide environmental education that prepares students for leadership and social responsibility by teaching them to think and communicate effectively and develop global environmental awareness and sensitivity.

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Ventilation and Indoor Air Quality (IAQ) :

- There is adequate size of windows in college class rooms as well as in corridor which allow sufficient light and ventilation.
- Corridors are wide with good ceiling height
- Classrooms also have high ceiling with wide doors. Windows are kept open to receive sunlight.
- All classrooms are provided with ceiling fans for proper air circulation.

Water Efficiency & Wastewater Management:

- Two RO filtration plant has been installed on main building to provide clean drinking water in campus.
- No water leakage observed anywhere in Campus.
- The students have awareness for water conservation.

Energy Efficiency:

- All the CRT monitors of computers have been replaced with LED.monitors.
- Computers are kept switched off when not required to operate.
- Save energy posters/stickers such as "Switch off all electrical equipment's when not required to use" at maximum locations to spread energy conservation awareness.
- All conventional incandescent tube lights are replaced with LED tube lights.

Ambiance and Acoustic Control:

- Tree plantation in and around the campus help in reducing ambient temperature and acoustic control.
- The college is located away from road side so there is no major noise pollution.

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Observation:

- Many indoor plants were observed on 1st, 2nd and 3rd floor of the college. Many flowering trees, which bloom in different seasons, in front of the large trees and along the periphery were planted.
- Tank top cover of all drinking water coolers should be locked and date of last cleaning and due date to be displayed.
- Speed breaker on both side of Main gate and Display Board College ahead No Honking are observed on main road in front of college gate.
- Fire Extinguishers are placed on every floor and in Labs. Suitable signage for fire/emergency exit and assembly points to be placed where required.

Suggestion/Recommendations:

- Water recycling/sewage treatment plants may be installed and recycled water to be used for gardening/horticulture and toilet flushing etc.
- Energy meter may be provided separately for each department to monitor and control monthly electricity consumption and records to be maintained.
- All CFL may be replaced with LED lamps to save energy.
- Annual consumption target for paper may be given to the department as per requirement and shall be monitored with records to understand the impact of digitization in the college.
- Students may be involved to practice on reduction of electricity consumption and various methods to reduce paper consumption.
- Internal notices and communications can be done through e- mail/SMS to reduce paper uses.

Dharitree Enviro Research Centre THANE

For Dharitree Enviro Research Centre

Malabe

Proprietor

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Summary:

Environment Audit is one of the important tools to check the balance of natural resources and its judicial use. Environment auditing is the process of identifying and determining whether institutional practices are eco-friendly and sustainable. It is a process of regular identification, quantification, documenting, reporting and monitoring of environmentally important components in a specified area. College has conducted a "Environment Audit" in the academic year 2023. The main objective to carry out environment audit is to check the green practices followed by College and to conduct a well-defined audit report to understand whether the Institute is on the track of sustainable development.

Recommendations:

- CFL lamps can be used in all sections to minimize the usage of fluorescent tubes
- Waste water management still needs to be practiced and designed in the campus.
- Drips and sprinklers can be used for watering the gardens and lawns.
- Roof top rain water harvesting can be designed and constructed.
- Special days like, Teachers Day, Guru poornima, van mahotsav can be celebrated by plant donations. • E-waste segregation, handling and disposal can be deployed at the campus.

Dharitree Enviro Research Centre THANE

For Dharitree Enviro Research Centre

Proprietor

I/C Principal
Pune Vidarthi Griha's
College of Science & Technology

Dr. Pramod B. Salaskar
Mob : +91-9969410612
+91-9967002502

DHARITREE ENVIRO RESEARCH CENTRE

B/1302, Runwal Regency, Opp. to Petrol Pump, Majiwada village Road, Thane (W) -400 601 - India
Email : pramodsalaskar.64@gmail.com / powai_mumbai@yahoo.co.in

Pune Vidyarthi Griha's College of Science & Technology

GREEN AUDIT REPORT

(2021 – 2023)

For Dharitree Enviro Research Centre

Proprietor

CERTIFICATE OF GREEN AUDIT

This is to certify that

Pune Vidyarthi Griha's College of Science & Technology

(Affiliated to University of Mumbai)

Located at CTS No. 218, Br. Nath Pai Nagar,
Ghatkopar (E) Mumbai

Has conducted detailed Green Audit of their college and has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified based on the report submitted and was found to be satisfactory.

Dharitree Enviro Research Centre THANE

(Term of validity)
June, 1st 2021 - May, 31st 2023

Salaskar

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

Date of Issue: 6th June 2021

History:

An education only can provide, stability, and one could gain name and fame in society, an education is wealth and becomes a treasure to the ones, who do not have money, and to the ones, who have a clever brain and ambitions in mind. "Anath Vidyarthi Griha" came into existence in the year 1909 on May 12th, having the same motto and with the aspiration to educate the poor and destitute needy children. There were many students, who used to work hard and some of them would get charitable offerings from the society, but there was not a home or shelter for them and even a school where they would get an education. Eventually, this task was shouldered idealistically by "Pune Vidyarthi Griha".

The Pune Vidyarthi Griha's College of Science & Technology is affiliated to Mumbai University & managed by Pune Vidyarthi Griha [PVG] formerly known as "Pune Anath Vidyarthi Griha"'. Pune Anath Griha was established in 1909 by Kulguru Dada Saheb Ketkar for imparting school education to students in weaker sections of society. From the beginning, PVG focused on school education. Later on, realizing the need for higher education institutions in Maharashtra, PVG started higher education institutions in Printing Technology, Engineering, and Management. At present PVG has campuses located in Pune and Nashik & Mumbai where more than 20,000 students take education right from school to higher education.

The Pune Vidyarthi Griha's College of Science & Technology was established in the year 2008. Itis Affiliated with the University of Mumbai and Recognized by Govt. of Maharashtra in 2008. Initially, the permission was granted only for B. Sc. Information Technology & B.Sc. Computer Science Course. Observing the excellence of the college, the University granted permission to the college to start B.com, BMS & BBI course in the year 2017 – 18.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Pune Vidyarthi Griha's College of Science & Technology Ghatkopar (East) Mumbai 400 077

GREEN AUDIT REPORT COMMITTEE

(2021 – 2023)

Sr.No.	Name	Designation	Committee Role	Signature
1	Dr. Ajay Kumar Pathak	I/C Principal	Coordinator	
2	Dr. Pramod Salaskar	Dharitree Enviro Research Centre	External Auditor	
3	Prof. Meena Patel	Asst. Professor	Internal Auditor	
4	Prof. Sita Nadar	Asst. Professor	Internal Auditor	
5	Prof. Gaurav Singh	Asst. Professor	Internal Auditor	
6	Prof. Archana Bhosale	Asst. Professor	Internal Auditor	

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

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I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Principal Message....

I express my hearty wishes for success of this publication of 'Green Audit 2021- 2023'. Efforts made by our institution and senior college for the protection of environment and biodiversity conservation is really unique, which may become pilot project gives message about to avoid the for coming natural disaster like global warming, land sliding etc. We try to maintain environment eco-friendly through activities like landscaping and plantation, rain water harvesting, solid waste Management, sewage treatment plant, energy conservation, e-waste management, and paperless technology to minimize the use of paper basically prepare from the plants.

The ultimate aim of our institution to develop youth as fertile probe who understand for their social responsibilities.

I express my hearty wishes for success of this movement of Green Audit Report for the new beginning of the conservation from the doorstep of the people.

Our green audit reflects assessment and achievement of vision and mission of the college.

Dr. Ajay Kumar Pathak

I/c Principal

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

TABLE. FLORAL DIVERSITY (TREE) OBSERVED IN THE COLLEGE CAMPUS

Tree No.	Botanical name	Local Name	Lat./Long (Location)
1	*Terminalia catapa*	Deshibadam	19°04.216'N ; 72°54.240'E
2	*Polyalthia longifolia*	Ashoka	19°04.216'N ; 72°54.238'E
3	*Terminalia catapa*	Deshibadam	19°04.216'N ; 72°54.238'E
4	*Dypsis lutescens*	Aareca Palm	19°04.215'N ; 72°54.223'E
5	*Polyalthia longifolia*	Ashoka	19°04.211'N ; 72°54.234'E
6	*Terminalia catapa L.*	Deshibadam	19°04.211'N ; 72°54.232'E
7	*Terminalia catapa L.*	Deshibadam	19°04.211'N ; 72°54.233'E
8	*Polyalthia longifolia*	Ashoka	19°04.210'N ; 72°54.232'E
9	*Terminalia catapa L.*	Deshibadam	19°04.197'N ; 72°54.223'E
10	*Cocos nucifera L.*	Naral	19°04.204'N ; 72°54.229'E
11	*Tectona grandis*	Sagwan	19°04.194'N ; 72°54.220'E
12	*Cocos nucifera L.*	Naral	19°04.193'N ; 72°54.219'E
13	*Tectona grandis*	Sagwan	19°04.193'N ; 72°54.217'E
14	*Cocos nucifera*	Naral	19°04.193'N ; 72°54.217'E
15	*Tectona grandis*	Sagwan	19°04.192'N ; 72°54.223'E
16	*Cocos nucifera*	Naral	19°04.193'N ; 72°54.215'E
17	*Tectona grandis*	Sagwan	19°04.193'N ; 72°54.217'E
18	*Mangifera indica L.*	Amba	19°04.185'N ; 72°54.213'E
19	*Tectona grandis*	Sagwan	19°04.185'N ; 72°54.213'E
20	*Neolamarckia cadamba*	Kadam	19°04.185'N ; 72°54.213'E
21	*Cocos nucifera*	Naral	19°04.183'N ; 72°54.213'E
22	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.216'E
23	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.219'E
24	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.212'E
25	*Hyophorbe lagenicaulis*	Bottle palm	19°04.183'N ; 72°54.214'E
26	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.211'E
27	*Tectona grandis*	Sagwan	19°04.182'N ; 72°54.218'E
28	*Tectona g. ndis*	Sagwan	19°04.183'N ; 72°54.227'E
29	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.227'E

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30	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.225'E
31	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.219'E
32	*Polyalthia longifolia*	Ashoka	19°04.183'N ; 72°54.214'E
33	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.209'E
34	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.210'E
35	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.227'E
36	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
37	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
38	*Tectona grandis*	Sagwan	19°04.182'N ; 72°54.218'E
39	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.218'E
40	*Tectona grandis*	Sagwan	19°04.182'N ; 72°54.218'E
41	*Hyophorbe lagenicaulis*	Bottle palm	19°04.182'N ; 72°54.218'E
42	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.218'E
43	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
44	*Polyalthia longifolia*	Ashoka	19°04.183'N ; 72°54.227'E
45	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
46	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
47	*Annona squamosa*	Sitphal	19°04.184'N ; 72°54.226'E
48	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.226'E
49	*Ficus racemosa L.*	Umber	19°04.184'N ; 72°54.221'E
50	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.226'E
51	*Annona squamosa*	Sitphal	19°04.184'N ; 72°54.230'E
52	*Tectona grandis*	Sagwan	19°04.184'N ; 72°54.225'E
53	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.218'E
54	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.213'E
55	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.207'E
56	*Hyophorbe lagenicaulis*	Bottle palm	19°04.188'N ; 72°54.242'E
57	*Tectona grandis*	Sagwan	19°04.188'N ; 72°54.240'E
58	*Terminalia catapa L.*	Deshibadam	19°04.185'N ; 72°54.194'E
59	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.194'E
60	*Polyalthia longifolia*	Ashoka	19°04.186'N ; 72°54.194'E
61	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.197'E
62	*Hyophorbe lagenicaulis*	Bottle palm	19°04.184'N ; 72°54.269'E
63	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.269'E
64	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.271'E

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65	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.276'E
66	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.283'E
67	*Mangifera indica L.*	Amba	19°04.185'N ; 72°54.294'E
68	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.194'E
69	*Tectona grandis*	Sagwan	19°04.185'N ; 72°54.194'E
70	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.194'E
71	*Artocarpu. heterophyllus Lamk.*	Phanas	19°04.185'N ; 72°54.197'E
72	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.195'E
73	*Moringa oleifera*	Shevga	19°04.185'N ; 72°54.199'E
74	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.202'E
75	*Hyophorbe lagenicaulis*	Bottle palm	19°04.185'N ; 72°54.204'E
76	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.209'E
77	*Ficus racemosa L.*	Umber	19°04.185'N ; 72°54.213'E
78	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.218'E
79	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.223'E
80	*Delonix regia*	Gulmohar	19°04.185'N ; 72°54.225'E
81	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.229'E
82	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.234'E
83	*Hyophorbe lagenicaulis*	Bottle palm	19°04.185'N ; 72°54.237'E
84	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.239'E
85	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.241'E
86	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.243'E
87	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.247'E
88	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.247'E
89	*Aegle marmelos*	Bel	19°04.182'N ; 72°54.244'E
90	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.240'E
91	*Hyophorbe lagenicaulis*	Bottle palm	19°04.182'N ; 72°54.235'E
92	*Murraya koenigii*	Kadi Patta	19°04.184'N ; 72°54.253'E
93	*Peltophorum pterocarpum*	Sonmohar	19°04.190'N ; 72°54.270'E
94	*Bombax ceiba L.*	Katesavar	19°04.184'N ; 72°54.249'E
95	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.241'E
96	*Peltophorum pterocarpum*	Sonmohar	19°04.192'N ; 72°54.267'E
97	*Ficus benghalensis L.*	Vad	19°04.192'N ; 72°54.273'E
98	*Azadirachta indica*	Neem	19°04.192'N ; 72°54.273'E
99	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E

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100	*Azadirachta indica*	Neem	19°04.193'N ; 72°54.269'E
101	*Plumeria obtusa L.*	Chapha	19°04.193'N ; 72°54.268'E
102	*Carica papaya*	Pappayi	19°04.192'N ; 72°54.274'E
103	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
104	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
105	*Annona squamosa*	Sitphal	19°04.189'N ; 72°54.255'E
106	*Cocos nucifera L.*	Naral	19°04.198'N ; 72°54.264'E
107	*Tectona grandis*	Sagwan	19°04.200'N ; 72°54.112'E
108	*Cocos nucifera L.*	Naral	19°04.202'N ; 72°54.243'E
109	*Cocos nucifera L.*	Naral	19°04.202'N ; 72°54.245'E
110	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.206'E
111	*Mangifera indica L.*	Amba	19°04.200'N ; 72°54.203'E
112	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.176'E
113	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.189'E
114	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.192'E
115	*Ficus racemosa L.*	Umber	19°04.200'N ; 72°54.196'E
116	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.184'E
117	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.169'E
118	*Cocos nucifera L.*	Naral	19°04.206'N ; 72°54.282'E
119	*Pongamia pinnata*	Karanj	19°04.205'N ; 72°54.279'E
120	*Polyalthia longifolia*	Ashoka	19°04.207'N ; 72°54.223'E
121	*Peltophorum pterocarpum*	Sonmohar	19°04.208'N ; 72°54.237'E
122	*Polyalthia longifolia*	Ashoka	19°04.208'N ; 72°54.249'E

Pune Vidyarthi Griha's College of Science & Technology Ghatkopar (East) Mumbai 400 077

For Dharitree Enviro Research Centre

Proprietor

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Objectives of the Green Audit:

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

The main objectives of carrying out Green Audit are:

1. To introduce and aware students to real concerns of environment and its sustainability
2. To secure the environment and cut down the threats posed to human health by analysing the pattern and extent of resource use on the campus.
3. To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requires high cost.
4. To bring out a status report on environmental compliance.

Methodology:

Green audit of the campus is prepared by various methods including different tools such as questionnaire, physical inspection of the campus, observation and review of the documents, interviewing key persons and data analysis, observation and recommendations. The study covered the following areas to summaries the present status of environmentally sustainable management on the campus.

- Landscape and plantation
- Solid Waste management
- Sewage Waste management
- E-waste management
- Energy Conservation
- Rain water harvesting
- Environmental activities

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Metrology

Climate data for Mumbai

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
ord high °C (°F)	36.3 (97.3)	35.3 (95.5)	37.6 (99.7)	39.5 (103.1)	42.8 (109.0)	39.6 (103.3)	33.5 (92.3)	33.2 (91.8)	34.5 (94.1)	37.6 (99.7)	36.7 (98.1)	34.5 (94.1)	42.8 (109.0)
age high °C (°F)	29.2 (84.6)	30.5 (86.9)	32.4 (90.3)	34.2 (93.6)	34.4 (93.9)	31.2 (88.2)	29.1 (84.4)	28.6 (83.5)	29.4 (84.9)	33.3 (91.9)	32.4 (90.3)	31.2 (88.2)	31.3 (88.3)
age low °C (°F)	15.1 (59.2)	16.5 (61.7)	19.5 (67.1)	22.7 (72.9)	25.2 (77.4)	25.1 (77.2)	24.2 (75.6)	23.7 (74.7)	22.8 (73.0)	22.3 (72.1)	19.4 (66.9)	16.3 (61.3)	−1.1 (30.0)
ord low °C (°F)	6.7 (44.1)	8.3 (46.9)	16.5 (61.7)	18.6 (65.5)	20.2 (68.4)	21.1 (70.0)	19.6 (67.3)	18.9 (66.0)	19.2 (66.6)	18.6 (65.5)	16.5 (61.7)	12.4 (54.3)	6.7 (44.1)
age rainfall inches)	3.6 (0.14)	1.0 (0.04)	1.3 (0.05)	2.0 (0.08)	21.3 (0.84)	502.4 (19.78)	1,015.7 (39.99)	584.2 (23.00)	336.3 (13.24)	95.3 (3.75)	12.9 (0.51)	2.0 (0.08)	2,578 (101.5)
age rainy days	0	0	0	0	1	14	31	24	15	6	1	0	92
Mean monthly sunshine hours	269.4	259.3	272.9	286.4	295.6	143.3	73.2	71.2	157.5	234.5	245.6	254.2	2,563.

For Dharitree Enviro Research Centre

Proprietor

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Location:

Pune Vidyarthi Griha's College of Science & Technology located at CTS No. 218, Br. Nath Pai Nagar, Ghatkopar-E Ghatkopar (East) Mumbai-400077, Maharashtra, India.

Figure Schematic representation of Vidya Bhavan Campus

Country	India
State	Maharashtra
District	Mumbai
City	Mumbai
Area	Ghatkopar East
Elevation	20 meters
Population	**Population (2020):** 146056
	Male Population: 76084 **Female Population:** 69972
Area Code	+91 – 022
Official Languages	Marathi, English
College Campus area:	Approximately 9,586.6Sq. meter
Perimeter	Approximately 467.3 meter
Location:	19°04.197'N; 72°54.236'E

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College of Science & Technology

Table: Lepidopteran diversity observed in the College Campus

Sr. No.	Common Name	Scientific Name	Family	Status
1	Common Jay	*Graphium doson*	Papilionidae	C
2	Lime Butterfly	*Papilio demoleus*	Papilionidae	VC
3	Common Mormon	*Papilio polytes*	Papilionidae	VC
4	Common Albatross	*Appias albina*	Pieridae	C
5	Common Grass Yellow	*Eurema hecabe*	Pieridae	VC
6	Small Grass Yellow	*Eurema brigitta*	Pieridae	C
7	Plain Tiger	*Danaus chrysippus*	Nymphalidae	VC
8	Common Indian Crow	*Euploea core*	Nymphalidae	VC
9	Common Sailer	*Neptis hylas*	Nymphalidae	VC
10	Common Pierrot	*Castalius rosimon*	Lycaenidae	VC

C: Common ; VC: Very Common

Pune Vidyarthi Griha's College of Science & Technology, Ghatkopar (East) Mumbai 400 077.

For Dharitree Enviro Research Centre

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College of Science & Technology

Table 2: Avifaunal diversity observed immediate surroundings of the College Campus

Family	Scientific Name	Common Name	IUCN Status	IWPA Assessment	Feeding Habit	Dwelling Status
Corvidae	*Corvus splendens*	House Crow	Least Concern ver 3.1	Schedule - V	Omnivorous	R
	Corvus macrorhynchos	Jungle Crow	Least Concern ver 3.1	--	Omnivorous	R
Pycnonotidae	*Pycnonotus cafer*	Red Vented Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
	Pycnonotus jocosus	Red Whiskered Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
Meropidae	*Merops orientalis*	Small Bee Eater	Least Concern ver 3.1	--	Insectivorous	R
Halcyonidae	*Halcyon smyrnensis*	White-throated Kingfisher	Least Concern ver 3.1	Schedule -IV	Piscivorous & Insectivorous	R
Columbidae	*Streptopelia chinensis*	Spotted Dove	Not Assessed	Schedule -IV	Granivorous	R
	Columba livia	Blue Rock Pigeon	Least Concern ver 3.1	--	Granivorous	R
Leiothrichidae	*Turdoides striatus*	Jungle Babbler	Least Concern ver 3.1	Schedule -IV	Omnivorous	R
Dicruridae	*Dicrurus macrocercus*	Black Drongo	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
Sturnidae	*Acridotheres tristis*	Common Myna	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
Muscicapidae	*Copsychus saularis*	Oriental Magpie-Robin	Least Concern ver 3.1	--	Insectivorous & Herbivorous	R
Cuculidae	*Centropus sinensis*	Greater Coucal	Least Concern ver 3.1	Schedule -IV	Carnivorous	R

For Dharitree Enviro Research Centre

Proprietor

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Table: Species wise count of trees

Sr. No.	Botanical Name	Local Name	Family	Native/ Introd. / Nt.	Vegetation type	No. of individuals plants
1	*Aegle marmelos*	Bel	Rutaceae	Native	Deciduous	1
2	*Annona squamosa*	Sitaphal	Annonaceae	Nt	Evergreen	3
3	*Artocarpus heterophyllus*	Phanus	Moraceae	Native	Evergreen	1
4	*Azadirachta indica*	Neem	Meliaceae	Native	Evergreen	2
5	*Bombax ceiba*	Katesavar	Malvaceae	Native	Deciduous	1
6	*Carica papaya*	Pappayi	Caricaceae	Native	Evergreen	1
7	*Cocos nucifera*	Naral	Arecaceae	Native	Evergreen	47
8	*Delonix regia*	Gulmohar	Caesalpiniaceae	Nt	Evergreen	1
9	*Dypsis lutescens*	Areca palm	Arecaceae	Nt	Evergreen	1
10	*Eucalyptus grandis*	Neelgiri	Myrtaceae	Nt	Evergreen	3
11	*Ficus benghalensis*	Vad	Moraceae	Native	Evergreen	1
12	*Ficus racemosa*	Umber	Moraceae	Native	Evergreen	3
13	*Hyophorbe lagenicaulis*	Bottle Palm	Arecaceae	Nt	Evergreen	7
14	*Mangifera indica*	Amba	Anacardiaceae	Native	Evergreen	4
15	*Moringa oleifera*	Shevga	Moringaceae	Native	Deciduous	1
16	*Murraya koenigii*	Kaddi patta	Rutaceae	Native	Deciduous	1
17	*Neolamarckia cadamba*	Kadamb	Rubiacea	Native	Evergreen	1
18	*Peltophorum pterocarpum*	Sonmohar	Caesalpiniaceae	Introd	Evergreen	3
19	*Plumeria obtusa*	Chapha	Apocynaceae	Introd	Evergreen	1
20	*Polyalthia longifolia*	Ashoka	Annonaceae	Native	Evergreen	14
21	*Pongamia pinnata*	Karanj	Fabaceae	Native	Deciduous	1
22	*Tectona grandis*	Sagwan	Verbenaceae	Native	Deciduous	18
23	*Terminalia catapa*	Deshibadam	Combretaceae	Native	Deciduous	6
					Total	122

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

ENVIRONMENT AWARENESS PROGRAM

Aim and objective:

- To plan, organize and implement programmes like landscape and plantation, water management & conservation, and rain water harvesting.
- To provide education that prepares students for leadership and social responsibility teaching them to think and communicate effectively and develop a global awareness.
- To introduce environmental education programmes for strengthen the existing ecological and environment related training infrastructure.
- To organize training programmes for vocationalization of environmental careers.
- To strengthen Global Environmental Education Programmes for standardization of greening activities.
- To introduce environmental education programmes in strengthen the existing ecological and environment related training infrastructure.
- To make special plans for the studies vermiculture, plantation, nursery development, water & energy conservation and management, rain water harvesting and other related fields.
- To provide environmental education that prepares students for leadership and social responsibility by teaching them to think and communicate effectively and develop global environmental awareness and sensitivity.

Ventilation and Indoor Air Quality (IAQ):

- There is adequate size of windows in college class rooms as well as in corridor which allow sufficient light and ventilation.
- Corridors are wide with good ceiling height
- Classrooms also have high ceiling with wide doors. Windows are kept open to receive sunlight,
- All classrooms are provided with ceiling fans for proper air circulation.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

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College of Science & Technology

SOLID WASTE MANAGEMENT

Aim: -

1) Scientific disposal of solid waste

2) Protection of human health and environment

Objective: -

1) To increase recycling level

2) To reduce organic waste in landfills

3) To control air, water, soil pollution

4) Production of green manure and vermicompost.

Activity / Observation:

Solid waste is separated as dry and wet. Dry waste includes plastic, glass, paper, metals, wood and related product. Wet waste typically refers to organic waste usually generated as canteen waste, plant debris. Dry waste is separated and it is given for its reuse and recycling to the recycler agency to avoid the pollution. Wet waste is also known as organic waste. It is obtain from canteen , fallen leaves , litter, ort, trash etc. produce in this campus if it is not disposed properly it creates air pollution, to avoid this we have implemented solid organic waste management activity, we run it at two level one is decomposition of solid waste through the composting in pit, vermicompost form solid organic waste and second is training to the students, farmers about production of organic manure like vermicompost, production of mushroom from the solid organic agricultural waste which ultimately conversion of Best from Waste, further the best biofertilizer is used for plants of college campus which enhances greenery leads environment clean and fresh.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

ANALYSIS TEST REPORT

Sample Collection Date	17/03/2023	Analysis Completed on	18/03/2023
Sampling Point	Canteen		
Sample Details	Drinking Water		
Sample Container	PVC Can	Sample Quantity	5000 ml

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500) (As	Method
1	pH	7.4	-	6.5 - 8.5	IS 3025 (Part-11): 2022
2	Colour	<5	CU	5.0	IS 3025 (Part-4/4): 2021
3	Odour	Agreeable	-	Agreeable	IS3025 (Part-5):2018:RA 2022
4	TDS	112	mg/lit	500	IS 3025 (Part-16):2023
5	Turbidity	<1.0	NTU	1.00	IS 3025 (Part-10): 1984:RA 2022
6	Ammonia	<0.5	mg/lit	0.5	IS 3025 (Part 34/2.2 & 2.3): 1988:RA 2019
7	Chlorides as Cl	15.6	mg/lit	250.00	IS 3025 (Part 32/2): 1988: RA 2019
8	Fluorides as F	0.8	mg/lit	1.0	APHA (24th Edition) 4500 F – D -
9	Residual Chlorine	<0.2	mg/lit	0.2	IS 3025 (P-26/5):2021
10	Nitrate as NO_3	10.4	mg/lit	45.00	APHA (24th Edition) 4500- NO_3-B -
11	Total Alkalinity as	48.37	mg/lit	200	IS 3025(Part23/8.1):1986: RA
12	Total Hardness as	58.00	mg/lit	200.00	IS 3025(Part21/5):2009: RA 2019
13	Sulphate as SO4	3.6	mg/lit	200.00	APHA (24th Edition) 4500 SO4 – E – 2022
14	Cyanide as CN	<0.05	mg/lit	0.05	IS 3025 (Part27/sec1/4) :2021
15	Calcium as Ca	14.43	mg/lit	75.00	IS 3025 (Part40/5):1991: RA 2019
16	Magnesium as	5.34	mg/lit	30.00	IS 3025 (Part 52-6):2003: RA 2019
17	Total Chromium	<0.01	mg/lit	0.05	IS 3025 (Part46/6):1994: RA 2019

For Dharitree Enviro Research Centre

Malankar

Proprietor

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

ANALYSIS TEST REPORT

Sample Collection Date	17/03/2023	Analysis Completed on	18/03/2023
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For Dharitree Enviro Research Centre

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Proprietor

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Pune Vidyarthi Griha's
College of Science & Technology

AMBIENT NOISE LEVEL MONITORING		
Date Of Monitoring: **03.02.2023**		
Sampling Location: 50 Meter from Main Gate		
Sr. No.	**Time**	**Noise Levels in dB(A) Lea**
1	8.00 am	44.7
2	9.00 am	46.4
3	10.00 am	59.8
4	11.00 am	54.3
5	12.00 am	51.2
6	2.00 pm	49.8
7	4.00 pm	56.1
8	6.00 pm	58.4

Method: -IS:9989-1981 (RA 2001)

NOTE: 1) CPCB Limit During Day time < 55. (Day time shall mean from 6.00 am to 10.00 pm.)

2) CPCB Limit During Night time < 45. (Night time shall mean from 10.00 pm to 6.00 am.)

For Dharitree Enviro Research Centre

Proprietor

1/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

AMBIENT AIR STATION

Date Of sampling	06/01/2023	Analysis Completed On	13/01/2023
Location of H.V.S.	Aprrox. 50 meter from Main Gate		
Lateral Distance	50 Meter from Main Gate		
Receptor Distance	1.5 Meters From Ground Level		
Ambient Temperature (°C)	26	Humidity (%)	45
Wind Speed (km/hr)	09	Wind Direction (deg°)	W 280
Instruments Used	R.D.S.(APM- 460), F.P.S.(APM – 550), G.P.S.(APM – 411) & Benzene Sampler (GTI-177)		

POLLUTIONAL PARAMETERS

Parameters	Result	Units	NAAQS Limits	Method
PM_{10}	68	µg/m³	100.00	IS 5182 (Part 23): 2006 (RA 2022)
$PM_{2.5}$	33	µg/m³	60.00	EPA Quality assurance guidance document 2.12, based on CPCB- 2011
SO_2	16	µg/m³	80.00	IS 5182 (Part 2): 2001 (RA 2022)
NO_2	22	µg/m³	80.00	IS 5182 (Part 6): 2006 (RA 2022)
Ammonia (NH_3)	<20	µg/m³	400.00	CPCB Guidelines For Measurement Of Ambient Air Pollutants Volume-I ,2011
CO	0.97	mg/m³	04.00	IS 5182 (Part 10): 1999 (RA 2019)
Lead as Pb	<0.1	µg/m³	01.00	EPA compendium method IO 3.5:2012
Benzene (C_6H_6)	< 4	µg/m³	5.00	IS 5182 (Part 11) :2006 (RA 2022)
Arsenic (As)	< 5	ng/m³	6.00	EPA compendium method IO 3.5:2012
Nickel (Ni)	< 5	ng/m³	20.00	EPA compendium method IO 3.5:2012
Ozone (O_3)	14	µg/m³	180.00	IS 5182 (Part 9): 1974 RA 2019
Benzo(a)Pyrene	< 0.1	ng/m³	1.00	IS 5182 (Part 12): 2004 (RA 2019)

NOTE: 1) The above results relate only to the item tested & the condition prevailing at the time of sampling

2) PM_{10}-Particulate Matter of size < 10 µm, $PM_{2.5}$ - Particulate Matter of size < 2.5 µm

3) NAAQS-National Ambient Air Quality Standards

4) Lower Detection Limit (NH_3 <20 µg/m³), (Pb <0.10 µg/m³), (C_3H_6 <4 µg/m³), (As <5 ng/m³), (Ni <5 ng/m³), (Benzo(a)Pyrene < 0.1 ng/m³)

For Dharitree Enviro Research Centre

Proprietor

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Access, Maintenance and emergency plan of the building:

- There is wide and easy access to the college campus from the main road.
- Staircases are provided with handrails.
- The main building and extension building structures are well maintained.
- Portable Fire Extinguishers are placed at prominent locations to handle minor fire.
- Good housekeeping practices are followed.

Observation:

- Many indoor plants were observed on 1st, 2nd and 3rd floor of the college. Many flowering trees, which bloom in different seasons, in front of the large trees and along the periphery were planted.
- Tank top cover of all drinking water coolers should be locked and date of last cleaning and due date to be displayed.
- Speed Breaker on both side of Main gate and Display Board College Ahead No Honking are observed on main road in front of college gate.
- Fire Extinguishers are placed on every floor and in Labs. Suitable signage for fire/emergency exit and assembly points to be placed where required.

Suggestion/Recommendations:

- Water recycling/sewage treatment plants may be installed and recycled water to be used for gardening/horticulture and toilet flushing etc.
- Energy meter may be provided separately for each department to monitor and control monthly electricity consumption and records to be maintained.
- All CFL may be replaced with LED lamps to save energy.
- Annual consumption target for paper may be given to the department as per requirement and shall be monitored with records to understand the impact of digitization in the college.
- Students may be involved to practice on reduction of electricity consumption and various methods to reduce paper consumption.
- Internal notices and communications can be done through e- mail/SMS to reduce paper uses.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

For Dharitree Enviro Research Centre

Proprietor

Waste Management:

Paper waste

- Being academic institution, waste paper is the main solid waste generated in the premises. The institution has taken steps to minimize usage of papers by implementing e-notice board.
- Both sides of the pages are utilized to avoid excess paper usages.
- Paper wastes are not directly disposed of in dustbin, it is given to local vendors for recycling and reuse.

e-waste

- The college has taken initiative to segregate and collect e-wastes and stored at designated place for its proper disposal.

Canteen and Solid Waste Management

- Wet and dry wastes are segregated in college canteens and directly handed over to the concern Municipal Corporation for disposal.
- Bio-degradable and non-biodegradable waste is generated labs, are also segregated and disposed of through Municipal Corporation

Green initiatives:

- Trees are planted in the periphery of the ground and pathway sides in proper manner.
- The college has taken initiative for wide range of activities such as Swatch Bharat Campaign, poster competition, environment campaign for plantation, awareness on water conservation, essay competition and energy conservation to inculcate ecological awareness.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

Water Efficiency & Wastewater Management:

- Two RO filtration plant has been installed on main building to provide clean drinking water in campus.
- No water leakage observed anywhere in Campus.
- The students have awareness for water conservation.

Energy Efficiency:

- All the CRT monitors of computers have been replaced with LED monitors.
- Computers are kept switched off when not required to operate.
- Save energy posters/stickers such as "Switch off all electrical equipment's when not required to use" at maximum locations to spread energy conservation awareness.
- All conventional incandescent tube lights are replaced with LED tube lights.

Ambiance and Acoustic Control:

- Tree plantation in and around the campus help in reducing ambient temperature and acoustic control.
- The college is located away from road side so there is no major noise pollution.

I/C Principal
Pune Vidyarthi Griha's
College of Science & Technology

CERTIFICATE OF GREEN AUDIT

This is to certify that

Pune Vidyarthi Griha's College of Science & Technology

(Affiliated to University of Mumbai)

Located at CTS No. 218, Br. Nath Pai Nagar,
Ghatkopar (E) Mumbai

Has conducted detailed Green Audit of their college and has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified based on the report submitted and was found to be satisfactory.

Dharitree Enviro Research Centre THANE

(Term of validity)
June, 1st 2023 - May, 31st 2025

malaskar

(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

Date of Issue: 10th June 2023

Dr. Pramod B. Salaskar
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DHARITREE ENVIRO
RESEARCH CENTRE

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Pune Vidyarthi Griha's
College of Science & Technology

GREEN AUDIT REPORT

(2023 – 2025)

For Dharitree Enviro Research Centre

Proprietor

Preface....

The term "Green" means eco-friendly or not damaging the environment. "Green Auditing", an umbrella term, is known by another name „Environmental Auditing". In auditing literature both the terms are being used interchangeably. To implement the green audit other important aspects such as objective of green audit, drivers of green audit, future scope, benefits, and advantages are necessary to understand.

Concept of green audit is not limited to the decorating the college campus but also corporate responsibility, with quality education keep college environment eco-friendly with its facilities.

Attempt has been made on that direction by landscaping and plantation, solid waste management, recycling of waste water, conservation of energy, water conservation, rainwater harvesting and minimum of usage of paper.

With keeping this view our campus is clean and fresh, we try to inculcate value of surrounding environment amongst the students through Environmental awareness activities like nature club, NSS", Quiz competition on environment,

Flower Arrangement, Gardening development and nursery management course, Mushroom cultivation course, Production of vermicomposting from solid waste and activity like Competition on Preparation of "Best from Waste", preparation of trenches and plantation of tree sapling, greenery of the campus is maintaining by the students and staff of College

Because of the greenery and eco-friendly sustainable environment, college campus becomes more charming, refreshing and healthier. This increases efficiency of every element of the college.

Acknowledgement....

We take this opportunity to express our gratitude towards the president of the Institute, Hon. President, **Shri. Sunil Redekar** and Hon. Secretary of College Development Committee, **Dr. Rajendra Kamble**, & Hon. Director **Shri. Rajendra Borhade** and all Hon. Members of the CDC committee of the college for their valuable guidance, continuous encouragement, generous gift of time with constructive critism & suggestion during the composition of work of entire," Green Audit Report- 2023-25".

We also express our deep sense of gratitude to our Hon. Principal, **Dr Ajay Kumar Pathak**, who inspired and encouraged us throughout the work. We gratefully acknowledge the help provided by him on several occasions.

It is right time to express our deep sense of gratitude to our college Prof. Meena Patel, Prof. Jayshri Borhade, Prof. Gaurav Singh for their continuous help, inspiring resoluteness and sensible suggestion without any reservation whenever we approached throughout investigation.

We are thankful to **Dr. B.G Kulkarni** for his valuable guidance.

We are equally thankful to our colleagues teachers and students of B.Sc CS/B.Sc. IT B.com/ BMS which helps during data collection and identification of plants.

Coordinator,

Green Audit Report

Principal Message....

I express my hearty wishes for success of this publication of 'Green Audit 2023- 2025'.

Efforts made by our institution and senior college for the protection of environment and biodiversity conservation is really unique, which may become pilot project gives message about to avoid the for coming natural disaster like global warming, land sliding etc. We try to maintain environment eco-friendly through activities like landscaping and plantation, rain water harvesting, solid waste Management, energy conservation,

e-waste management, and paperless technology to minimize the use of paper basically prepare from the plants.

The ultimate aim of our institution to develop youth as fertile probe who understand for their social responsibilities.

I express my hearty wishes for success of this movement of Green Audit Report for the new beginning of the conservation from the doorstep of the people.

Our green audit reflects assessment and achievement of vision and mission of the college.

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GREEN AUDIT REPORT COMMITTEE

(2021 – 2023)

Sr.No.	Name	Designation	Committee Role	Signature
1	Dr. Ajay Kumar Pathak	I/C Principal	Coordinator	
2	Dr. Pramod Salaskar	Dharitree Enviro Research Centre	External Auditor	
3	Prof. Meena Patel	Asst. Professor	Internal Auditor	
4	Prof. Jayshri Borhade	Asst. Professor	Internal Auditor	
5	Prof. Gaurav Singh	Asst. Professor	Internal Auditor	
6	Prof. Archana Bhosale	Asst. Professor	Internal Auditor	

DHARITREE
ENVIRO RESEARCH CENTRE

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(Term of validity)
June, 1st 2023 - May, 31st 2025

Date of Issue: 10th June 2023

malaskar
(Dr. Pramod Salaskar)
Dharitree Enviro Research Centre

History:

An education only can provide, the stability, and one could gain name and fame in the

Location:

Pune Vidyarthi Griha's College of Science & Technology located at CTS No. 218, Br. Nath Pai Nagar, Ghatkopar-E Ghatkopar (East) Mumbai-400077, Maharashtra, India.

Figure Schematic representation of Vidya Bhavan Campus

Country	India
State	Maharashtra
District	Mumbai
City	Mumbai
Area	Ghatkopar East
Elevation	20 meter
Population	Population (2020): 146056 Male Population: 76084 Female Population: 69972
Area Code	+91 – 022
Official Languages	Marathi, English
College Campus area:	Approximately 9,586.65q. meter
Perimeter	Approximately 467.3 meter
Location:	19°04.197'N; 72°54.236'E

Objectives of the Green Audit :

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

The main objectives of carrying out Green Audit are:

1. To introduce and aware students to real concerns of environment and its sustainability
2. To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use on the campus.
3. To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requires high cost.
4. To bring out a status report on environmental compliance.

Methodology:

Green audit of the campus is prepared by various methods including different tools such as questionnaire, physical inspection of the campus, observation and review of the documents, interviewing key persons and data analysis, observation and recommendations. The study covered the following areas to summaries the present status of environmentally sustainable management on the campus.

- Landscape and plantation
- Solid Waste management
- Sewage Waste management
- E-waste management
- Energy Conservation
- Rain water harvesting
- Environmental activities

TABLE . FLORAL DIVERSITY (TREE) OBSERVED IN THE COLLEGE CAMPUS

Tree No.	Botanical name	Local Name	Lat./Long (Location)
1	*Terminalia catapa*	Deshibadam	19°04.216'N ; 72°54.240'E
2	*Polyalthia longifolia*	Ashoka	19°04.216'N ; 72°54.238'E
3	*Terminalia catapa*	Deshibadam	19°04.216'N ; 72°54.238'E
4	*Dypsis lutescens*	Aareca Palm	19°04.215'N ; 72°54.223'E
5	*Polyalthia longifolia*	Ashoka	19°04.211'N ; 72°54.234'E
6	*Terminalia catapa L.*	Deshibadam	19°04.211'N ; 72°54.232'E
7	*Terminalia catapa L.*	Deshibadam	19°04.211'N ; 72°54.233'E
8	*Polyalthia longifolia*	Ashoka	19°04.210'N ; 72°54.232'E
9	*Terminalia catapa L.*	Deshibadam	19°04.197'N ; 72°54.223'E
10	*Cocos nucifera L.*	Naral	19°04.204'N ; 72°54.229'E
11	*Tectona grandis*	Sagwan	19°04.194'N ; 72°54.220'E
12	*Cocos nucifera L.*	Naral	19°04.193'N ; 72°54.219'E
13	*Tectona grandis*	Sagwan	19°04.193'N ; 72°54.217'E
14	*Cocos nucifera*	Naral	19°04.193'N ; 72°54.217'E
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18	*Mangifera indica L.*	Amba	19°04.185'N ; 72°54.213'E
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20	*Neolamarckia cadamba*	Kadam	19°04.185'N ; 72°54.213'E
21	*Cocos nucifera*	Naral	19°04.183'N ; 72°54.213'E
22	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.216'E
23	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.219'E
24	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.212'E
25	*Hyophorbe lagenicaulis*	Bottle palm	19°04.183'N ; 72°54.214'E
26	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.211'E
27	*Tectona grandis*	Sagwan	19°04.182'N ; 72°54.218'E

28	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.227'E
29	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.222'E
30	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.225'E
31	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.219'E
32	*Polyalthia longifolia*	Ashoka	19°04.183'N ; 72°54.214'E
33	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.209'E
34	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.210'E
35	*Tectona grandis*	Sagwan	19°04.183'N ; 72°54.227'E
36	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
37	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
38	*Tectona grandis*	Sagwan	19°04.182'N ; 72°54.218'E
39	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.218'E
40	*Tectona grandis*	Sagwan	19°04.182'N ; 72°54.218'E
41	*Hyophorbe lagenicaulis*	Bottle palm	19°04.182'N ; 72°54.218'E
42	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.218'E
43	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
44	*Polyalthia longifolia*	Ashoka	19°04.183'N ; 72°54.227'E
45	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
46	*Cocos nucifera L.*	Naral	19°04.183'N ; 72°54.227'E
47	*Annona squamosa*	Sitphal	19°04.184'N ; 72°54.226'E
48	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.226'E
49	*Ficus racemosa L.*	Umber	19°04.184'N ; 72°54.221'E
50	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.226'E
51	*Annona squamosa*	Sitphal	19°04.184'N ; 72°54.230'E
52	*Tectona grandis*	Sagwan	19°04.184'N ; 72°54.225'E
53	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.218'E
54	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.213'E
55	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.207'E
56	*Hyophorbe lagenicaulis*	Bottle palm	19°04.188'N ; 72°54.242'E
57	*Tectona grandis*	Sagwan	19°04.188'N ; 72°54.240'E

58	*Terminalia catapa L.*	Deshibadam	19°04.185'N ; 72°54.194'E
59	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.194'E
60	*Polyalthia longifolia*	Ashoka	19°04.186'N ; 72°54.194'E
61	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.197'E
62	*Hyophorbe lagenicaulis*	Bottle palm	19°04.184'N ; 72°54.269'E
63	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.269'E
64	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.271'E
65	*Polyalthia longifolia*	Ashoka	19°04.184'N ; 72°54.276'E
66	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.283'E
67	*Mangifera indica L.*	Amba	19°04.185'N ; 72°54.294'E
68	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.194'E
69	*Tectona grandis*	Sagwan	19°04.185'N ; 72°54.194'E
70	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.194'E
71	*Artocarpus heterophyllus Lamk.*	Phanas	19°04.185'N ; 72°54.197'E
72	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.195'E
73	*Moringa oleifera*	Shevga	19°04.185'N ; 72°54.199'E
74	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.202'E
75	*Hyophorbe lagenicaulis*	Bottle palm	19°04.185'N ; 72°54.204'E
76	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.209'E
77	*Ficus racemosa L.*	Umber	19°04.185'N ; 72°54.213'E
78	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.218'E
79	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.223'E
80	*Delonix regia*	Gulmohar	19°04.185'N ; 72°54.225'E
81	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.229'E
82	*Polyalthia longifolia*	Ashoka	19°04.185'N ; 72°54.234'E
83	*Hyophorbe lagenicaulis*	Bottle palm	19°04.185'N ; 72°54.237'E
84	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.239'E
85	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.241'E
86	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.243'E
87	*Cocos nucifera L.*	Naral	19°04.185'N ; 72°54.247'E

88	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.247'E
89	*Aegle marmelos*	Bel	19°04.182'N ; 72°54.244'E
90	*Cocos nucifera L.*	Naral	19°04.182'N ; 72°54.240'E
91	*Hyophorbe lagenicaulis*	Bottle palm	19°04.182'N ; 72°54.235'E
92	*Murraya koenigii*	Kadi Patta	19°04.184'N ; 72°54.253'E
93	*Peltophorum pterocarpum*	Sonmohar	19°04.190'N ; 72°54.270'E
94	*Bombax ceiba L.*	Katesavar	19°04.184'N ; 72°54.249'E
95	*Cocos nucifera L.*	Naral	19°04.184'N ; 72°54.241'E
96	*Peltophorum pterocarpum*	Sonmohar	19°04.192'N ; 72°54.267'E
97	*Ficus benghalensis L.*	Vad	19°04.192'N ; 72°54.273'E
98	*Azadirachta indica*	Neem	19°04.192'N ; 72°54.273'E
99	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
100	*Azadirachta indica*	Neem	19°04.193'N ; 72°54.269'E
101	*Plumeria obtusa L.*	Chapha	19°04.193'N ; 72°54.268'E
102	*Carica papaya*	Pappayi	19°04.192'N ; 72°54.274'E
103	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
104	*Eucalyptus grandis*	Neelgiri	19°04.192'N ; 72°54.273'E
105	*Annona squamosa*	Sitphal	19°04.189'N ; 72°54.255'E
106	*Cocos nucifera L.*	Naral	19°04.198'N ; 72°54.264'E
107	*Tectona grandis*	Sagwan	19°04.200'N ; 72°54.112'E
108	*Cocos nucifera L.*	Naral	19°04.202'N ; 72°54.243'E
109	*Cocos nucifera L.*	Naral	19°04.202'N ; 72°54.245'E
110	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.206'E
111	*Mangifera indica L.*	Amba	19°04.200'N ; 72°54.203'E
112	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.176'E
113	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.189'E
114	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.192'E
115	*Ficus racemosa L.*	Umber	19°04.200'N ; 72°54.196'E
116	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.184'E
117	*Cocos nucifera L.*	Naral	19°04.200'N ; 72°54.169'E

118	*Cocos nucifera L.*	Naral	19°04.206'N ; 72°54.282'E
119	*Pongamia pinnata*	Karanj	19°04.205'N ; 72°54.279'E
120	*Polyalthia longifolia*	Ashoka	19°04.207'N ; 72°54.223'E
121	*Peltophorum pterocarpum*	Sonmohar	19°04.208'N ; 72°54.237'E
122	*Polyalthia longifolia*	Ashoka	19°04.208'N ; 72°54.249'E

For Dharitree Enviro Research Centre

Proprietor

Table: Species wise count of trees

Sr. No.	Botanical Name	Local Name	Family	Native / Introd. / Nt.	Vegetation type	No. of individuals plants
1	*Aegle marmelos*	Bel	Rutaceae	Native	Deciduous	1
2	*Annona squamosa*	Sitaphal	Annonaceae	Nt	Evergreen	3
3	*Artocarpus heterophyllus*	Phanus	Moraceae	Native	Evergreen	1
4	*Azadirachta indica*	Neem	Meliaceae	Native	Evergreen	2
5	*Bombax ceiba*	Katesavar	Malvaceae	Native	Deciduous	1
6	*Carica papaya*	Pappayi	Caricaceae	Native	Evergreen	1
7	*Cocos nucifera*	Naral	Arecaceae	Native	Evergreen	47
8	*Delonix regia*	Gulmohar	Caesalpiniaceae	Nt	Evergreen	1
9	*Dypsis lutescens*	Areca palm	Arecaceae	Nt	Evergreen	1
10	*Eucalyptus grandis*	Neelgiri	Myrtaceae	Nt	Evergreen	3
11	*Ficus benghalensis*	Vad	Moraceae	Native	Evergreen	1
12	*Ficus racemosa*	Umber	Moraceae	Native	Evergreen	3
13	*Hyophorbe lagenicaulis*	Bottle Palm	Arecaceae	Nt	Evergreen	7
14	*Mangifera indica*	Amba	Anacardiaceae	Native	Evergreen	4
15	*Moringa oleifera*	Shevga	Moringaceae	Native	Deciduous	1
16	*Murraya koenigii*	Kaddi patta	Rutaceae	Native	Deciduous	1
17	*Neolamarckia cadamba*	Kadamb	Rubiacea	Native	Evergreen	1
18	*Peltophorum pterocarpum*	Sonmohar	Caesalpiniaceae	Introd	Evergreen	3
19	*Plumeria obtusa*	Chapha	Apocynaceae	Introd	Evergreen	1
20	*Polyalthia longifolia*	Ashoka	Annonaceae	Native	Evergreen	14
21	*Pongamia pinnata*	Karanj	Fabaceae	Native	Deciduous	1
22	*Tectona grandis*	Sagwan	Verbenaceae	Native	Deciduous	18
23	*Terminalia catapa*	Deshibadam	Combretaceae	Native	Deciduous	6
					Total	**122**

Table 2: Avifaunal diversity observed immediate surroundings of the College Campus

Sr. No.	Family	Scientific Name	Common Name	IUCN Status	IWPA Assessment	Feeding Habit	Dwelling Status
1	Corvidae	*Corvus splendens*	House Crow	Least Concern ver 3.1	Schedule - V	Omnivorous	R
2		*Corvus macrorhynchos*	Jungle Crow	Least Concern ver 3.1	–	Omnivorous	R
3	Pycnonotidae	*Pycnonotus cafer*	Red Vented Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
4		*Pycnonotus jocosus*	Red Whiskered Bulbul	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
5	Meropidae	*Merops orientalis*	Small Bee Eater	Least Concern ver 3.1	–	Insectivorous	R
6	Halcyonidae	*Halcyon smyrnensis*	White-throated Kingfisher	Least Concern ver 3.1	Schedule -IV	Piscivorous & Insectivorous	R
7	Columbidae	*Streptopelia chinensis*	Spotted Dove	Not Assessed	Schedule -IV	Granivorous	R
8		*Columba livia*	Blue Rock Pigeon	Least Concern ver 3.1	–	Granivorous	R
9	Dicruridae	*Dicrurus macrocercus*	Black Drongo	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
10	Sturnidae	*Acridotheres tristis*	Common Myna	Least Concern ver 3.1	Schedule - IV	Omnivorous	R
11	Muscicapidae	*Copsychus saularis*	Oriental Magpie-Robin	Least Concern ver 3.1	–	Insectivorous & Herbivorous	R
12	Cuculidae	*Centropus sinensis*	Greater Coucal	Least Concern ver 3.1	Schedule -IV	Carnivorous	R

For Dharitree Enviro Research Centre

Proprietor

Table: Lepidopteran diversity observed in the College Campus

Sr. No.	Common Name	Scientific Name	Family	Status
1	Common Jay	*Graphium doson*	Papilionidae	C
2	Lime Butterfly	*Papilio demoleus*	Papilionidae	VC
3	Common Mormon	*Papilio polytes*	Papilionidae	VC
4	Common Grass Yellow	*Eurema hecabe*	Pieridae	VC
5	Small Grass Yellow	*Eurema brigitta*	Pieridae	C
6	Plain Tiger	*Danaus chrysippus*	Nymphalidae	VC
7	Common Indian Crow	*Euploea core*	Nymphalidae	VC
8	Common Sailer	*Neptis hylas*	Nymphalidae	VC

C: Common ; VC: Very Common

AMBIENT AIR STATION

Date Of sampling	16/05/2023	Analysis Completed On	29/05/2023
Location of H.V.S.	**Aprrox. 50 meter from Main Gate**		
Lateral Distance	50 Meter from Main Gate		
Receptor Distance	1.5 Meters From Ground Level		
Ambient Temperature (°C)	29	Humidity (%)	49
Wind Speed (km/hr)	09	Wind Direction (deg°)	W 296
Instruments Used	R.D.S.(APM- 460), F.P.S.(APM – 550), G.P.S.(APM – 411) & Benzene Sampler (GTI-177)		

POLLUTIONAL PARAMETERS

Parameters	Result	Units	NAAQS Limits	Method
PM_{10}	72	µg/m³	100.00	IS 5182 (Part 23): 2006 (RA 2022)
$PM_{2.5}$	34	µg/m³	60.00	EPA Quality assurance guidance document 2.12, based on CPCB- 2011
SO_2	18	µg/m³	80.00	IS 5182 (Part 2): 2001 (RA 2022)
NO_2	23	µg/m³	80.00	IS 5182 (Part 6): 2006 (RA 2022)
Ammonia (NH_3)	<20	µg/m³	400.00	CPCB Guidelines For Measurement Of Ambient Air Pollutants Volume-I ,2011
CO	0.92	mg/m³	04.00	IS 5182 (Part 10) : 1999 (RA 2019)
Lead as Pb	<0.1	µg/m³	01.00	EPA compendium method IO 3.5:2012
Benzene (C_6H_6)	< 4	µg/m³	5.00	IS 5182 (Part 11) :2006 (RA 2022)
Arsenic(As)	< 5	ng/m³	6.00	EPA compendium method IO 3.5:2012
Nickel(Ni)	< 5	ng/m³	20.00	EPA compendium method IO 3.5:2012
Ozone (O_3)	13	µg/m³	180.00	IS 5182 (Part 9): 1974 RA 2019
Benzo(a)Pyrene	< 0.1	ng/m³	1.00	IS 5182 (Part 12): 2004 (RA 2019)

NOTE: 1) The above results relate only to the item tested & the condition prevailing at the time of sampling

2) PM_{10}-Particulate Matter of size < 10 µm, $PM_{2.5}$ - Particulate Matter of size < 2.5 µm

3) NAAQS-National Ambient Air Quality Standards

4) Lower Detection Limit (NH_3 <20 µg/m³), (Pb <0.10 µg/m³), (C_6H_6 <4 µg/m³), (As <5 ng/m³), (Ni <5 ng/m³), (Benzo(a)Pyrene < 0.1 ng/m³)

For Dharitree Enviro Research Centre

Proprietor

AMBIENT NOISE LEVEL MONITORING		
Date Of Monitoring : **07.06.2023**		
Sampling Location : 50 Meter from Main Gate		
Sr. No.	**Time**	**Noise Levels in dB(A) Leq'**
1	8.00 am	46.2
2	9.00 am	47.8
3	10.00 am	53.6
4	11.00 am	56.3
5	12.00 am	54.9
6	2.00 pm	51.4
7	4.00 pm	49.7
8	6.00 pm	57.1

Method:-IS:9989-1981 (RA 2001)

NOTE: 1) CPCB Limit During Day time < 55. (Day time shall mean from 6.00 am to 10.00 pm.)

2) CPCB Limit During Night time < 45. (Night time shall mean from 10.00 pm to 6.00 am.)

For Dharitree Enviro Research Centre

Malaskar

Proprietor

ANALYSIS TEST REPORT			
Sample Collection Date	01/06/2023	Analysis Completed On	08/06/2023
Sampling Point	Canteen		
Sample Details	Drinking Water		
Sample Container	PVC Can	Sample Quantity	5000 ml

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	pH	7.4	-	(As per IS 10500) 6.5-8.5	IS 3025 (Part-11): 2022
2	Colour	<5	CU	5.0	IS 3025 (Part-4/4): 2021
3	Odour	Agreeable	-	Agreeable	IS3025 (Part-5):2018:RA 2022
4	TDS	112	mg/lit	500	IS 3025 (Part-16):2023
5	Turbidity	<1.0	NTU	1.00	IS 3025 (Part-10): 1984:RA 2022
6	Ammonia	<0.5	mg/lit	0.5	IS 3025 (Part 34/2.2 & 2.3): 1988:RA 2019
7	Chlorides as Cl	15.6	mg/lit	250.00	IS 3025 (Part 32/2): 1988: RA 2019
8	Fluorides as F	0.8	mg/lit	1.0	APHA (24th Edition) 4500 F– D - 2023
9	Residual Chlorine	<0.2	mg/lit	0.2	IS 3025 (P-26/5):2021
10	Nitrate as NO_3	10.4	mg/lit	45.00	APHA (24th Edition) 4500- NO_3-B - 2023
11	Total Alkalinity as CaCO	48.37	mg/lit	200	IS 3025(Part23/8.1):1986: RA 2019
12	Total Hardness as CaCO	58.00	mg/lit	200.00	IS 3025(Part21/5):2009: RA 2019
13	Sulphate as SO4	3.6	mg/lit	200.00	APHA (24th Edition) 4500 SO4 – E – 2022
14	Cyanide as CN	<0.05	mg/lit	0.05	IS 3025 (Part27/sec1/4) :2021
15	Calcium as Ca	14.43	mg/lit	75.00	IS 3025 (Part40/5):1991: RA 2019
16	Magnesium as Mg	5.34	mg/lit	30.00	IS 3025 (Part 52-6):2003: RA 2019
17	Total Chromium	<0.01	mg/lit	0.05	IS 3025 (Part46/6):1994: RA 2019

For Dhariwee Enviro Research Centre

Proprietor

SOLID WASTE MANAGEMENT

Aim :-

1) Scientific disposal of solid waste

2) Protection of human health and environment

Objective:-

1) To increase recycling level

2) To reduce organic waste in landfills

3) To control air, water, soil pollution

4) Production of green manure and vermicompost.

Activity / Observation :

Solid waste is separated as dry and wet. Dry waste includes plastic, glass, paper, metals, wood and related product. Wet waste typically refers to organic waste usually generated as canteen waste, plant debris. Dry waste is separated and it is given for its reuse and recycling to the recycler agency to avoid the pollution. Wet waste is also known as organic waste. It is obtain from canteen , fallen leaves , litter, ort, trash etc. produce in this campus if it is not disposed properly it creates air pollution, to avoid this we have implemented solid organic waste management activity, we run it at two level one is decomposition of solid waste through the composting in pit, vermicompost form solid organic waste and second is training to the students, farmers about production of organic manure like vermicompost, production of mushroom from the solid organic agricultural waste which ultimately conversion of Best from Waste, further the best biofertilizer is used for plants of college campus which enhances greenery leads environment clean and fresh.

ENVIRONMENT AWARENESS PROGRAM

Aim and objective:

- To plan, organize and implement programmes like landscape and plantation, water management & conservation, and rain water harvesting.
- To provide education that prepares students for leadership and social responsibility teaching them to think and communicate effectively and develop a global awareness.
- To introduce environmental education programmes for strengthen the existing ecological and environment related training infrastructure.
- To organize training programmes for vocationalisation of environmental careers.
- To strengthen Global Environmental Education Programmes for standardization of greening activities.
- To introduce environmental education programmes in strengthen the existing ecological and environment related training infrastructure.
- To make special plans for the studies vermiculture, plantation, nursery development, water & energy conservation and management, rain water harvesting and other related fields.
- To provide environmental education that prepares students for leadership and social responsibility by teaching them to think and communicate effectively and develop global environmental awareness and sensitivity.

Ventilation and Indoor Air Quality (IAQ) :

- There is adequate size of windows in college class rooms as well as in corridor which allow sufficient light and ventilation.
- Corridors are wide with good ceiling height
- Classrooms also have high ceiling with wide doors. Windows are kept open to receive sunlight.
- All classrooms are provided with ceiling fans for proper air circulation.

Water Efficiency & Wastewater Management:

- Two RO filtration plant has been installed on main building to provide clean drinking water in campus.
- No water leakage observed anywhere in Campus.
- The students have awareness for water conservation.

Energy Efficiency:

- All the CRT monitors of computers have been replaced with LED monitors.
- Computers are kept switched off when not required to operate.
- Save energy posters/stickers such as "Switch off all electrical equipment's when not required to use" at maximum locations to spread energy conservation awareness.
- All conventional incandescent tube lights are replaced with LED tube lights.

Ambiance and Acoustic Control:

- Tree plantation in and around the campus help in reducing ambient temperature and acoustic control.
- The college is located away from road side so there is no major noise pollution.

Waste Management:

Paper waste

- Being academic institution, waste paper is the main solid waste generated in the premises. The institution has taken steps to minimize usage of papers by implementing e-notice board.
- Both sides of the pages are utilized to avoid excess paper usages.
- Paper wastes are not directly disposed off in dustbin, it is given to local vendors for recycling and reuse.

e-waste

- The college has taken initiative to segregate and collect e-wastes and stored at designated place for its proper disposal.

Canteen and Solid Waste Management

- Wet and dry wastes are segregated in college canteens and directly handed over to the concern Municipal Corporation for disposal.
- Bio-degradable and non-biodegradable waste is generated labs, are also segregated and disposed of through Municipal Corporation

Green initiatives:

- Trees are planted in the periphery of the ground and pathway sides in proper manner.
- The college has taken initiative for wide range of activities such as Swatch Bharat Campaign, poster competition, environment campaign for plantation, awareness on water conservation, essay competition and energy conservation to inculcate ecological awareness.

Access, Maintenance and emergency plan of the Building:

- There is wide and easy access to the college campus from the main road.
- Staircases are provided with handrails.
- The main building and extension building structures are well maintained.

- Portable Fire Extinguishers are placed at prominent locations to handle minor fire.
- Good housekeeping practices are followed.

Observation:

- Many indoor plants were observed on 1st, 2nd and 3rd floor of the college. Many flowering trees, which bloom in different seasons, in front of the large trees and along the periphery were planted.
- Tank top cover of all drinking water coolers should be locked and date of last cleaning and due date to be displayed.
- Speed Breaker on both side of Main gate and Display Board College ahead No Honking are observed on main road in front of college gate.
- Fire Extinguishers are placed on every floor and in Labs. Suitable signage for fire/emergency exit and assembly points to be placed where required.

Suggestion/Recommendations:

- Water recycling/sewage treatment plants may be installed and recycled water to be used for gardening/horticulture and toilet flushing etc.
- Energy meter may be provided separately for each department to monitor and control monthly electricity consumption and records to be maintained.
- All CFL may be replaced with LED lamps to save energy.
- Annual consumption target for paper may be given to the department as per requirement and shall be monitored with records to understand the impact of digitization in the college.
- Students may be involved to practice on reduction of electricity consumption and various methods to reduce paper consumption.
- Internal notices and communications can be done through e- mail/SMS to reduce paper uses.

For Dharitree Enviro Research Centre

Proprietor

PHOTOGALLERY

Rainwater Harvesting Unit

Compost Pit

Compost Pit

Compost Pit

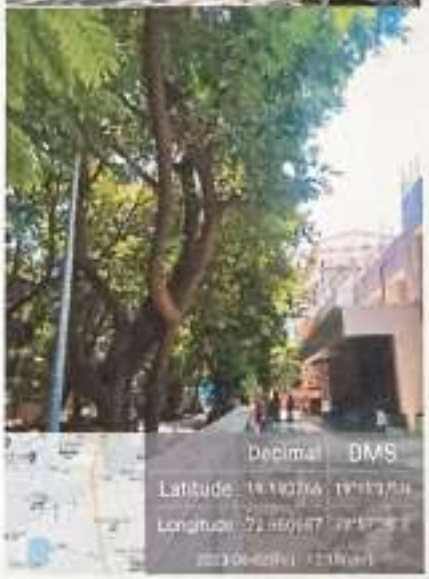
Fire Extinguishers

Plastic Waste Segregation Bin

Environmental Education Program

Systematic Identification and Geo-Tagging of the flora

Sports ... belt



Approach Road to college

Green belt in the college premises

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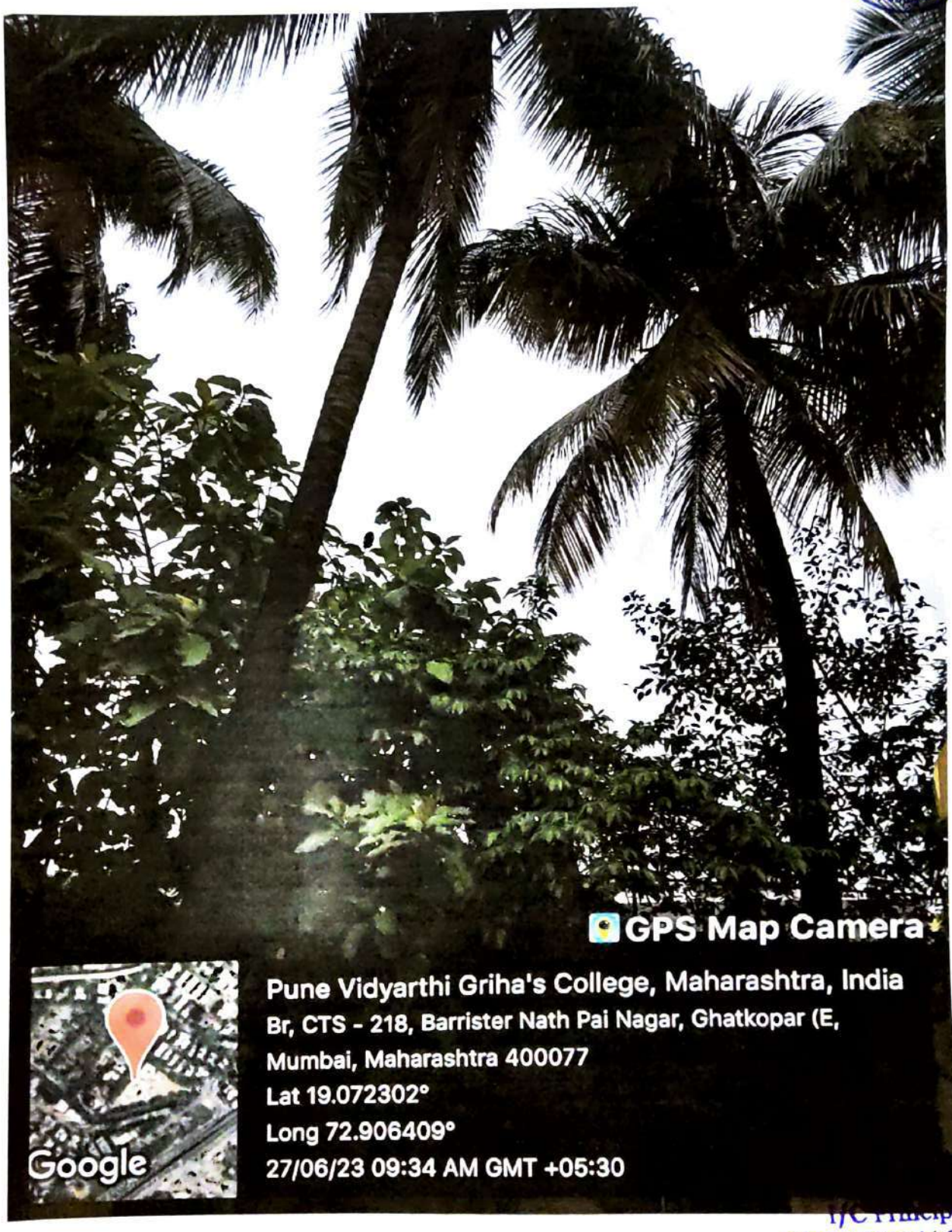
Email: pvgcst@yahoo.com Website: www.pvgcst.in



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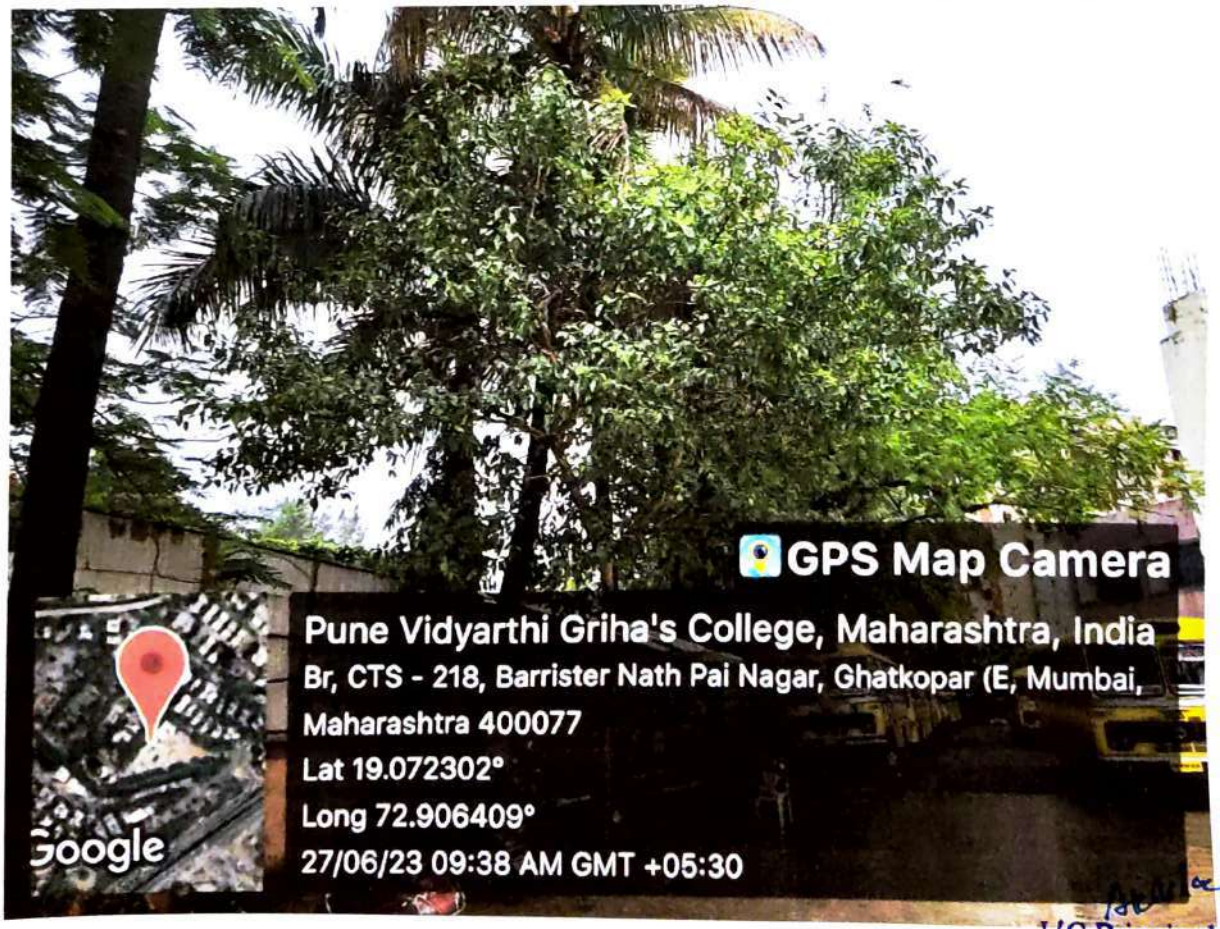

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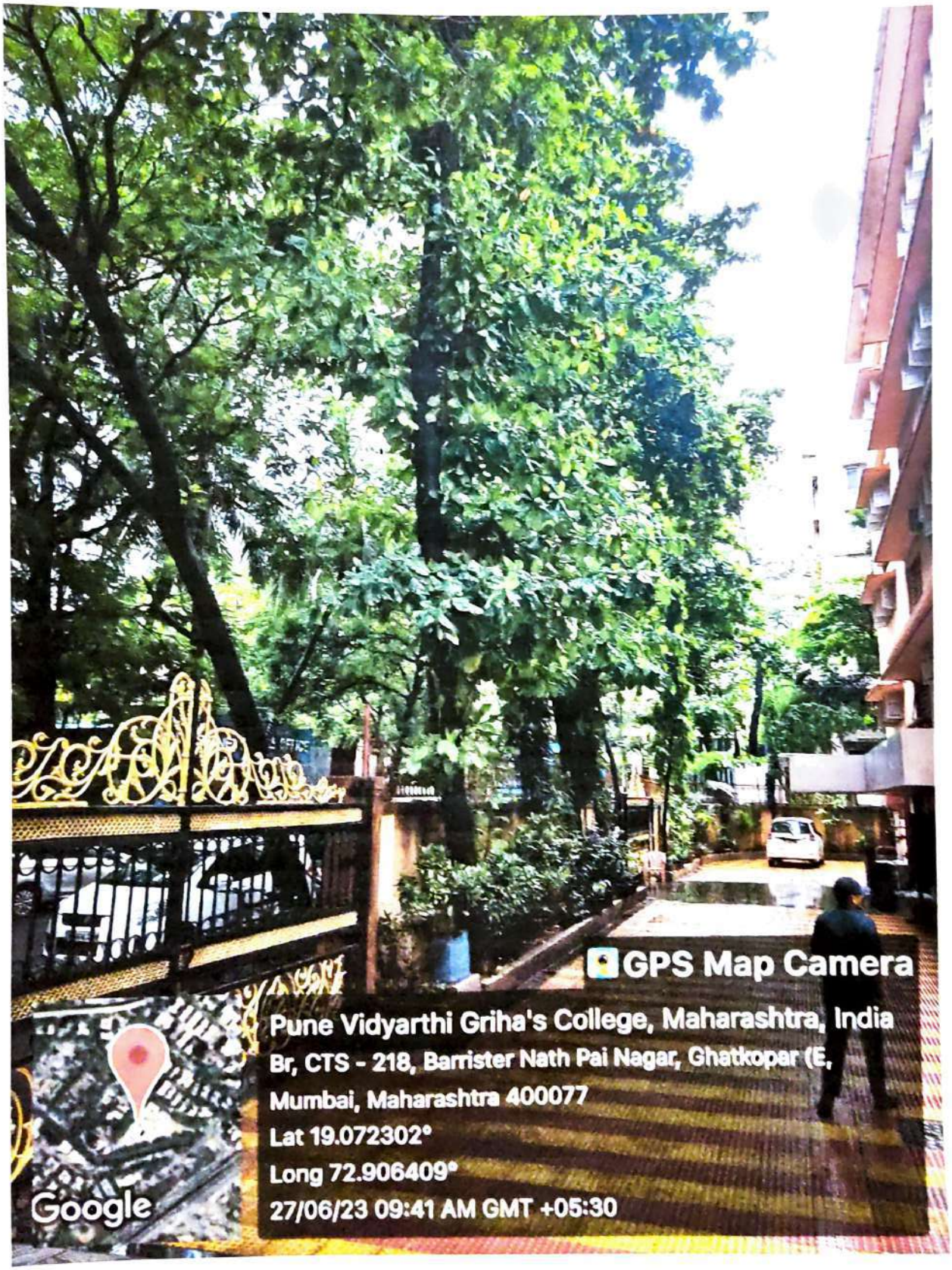

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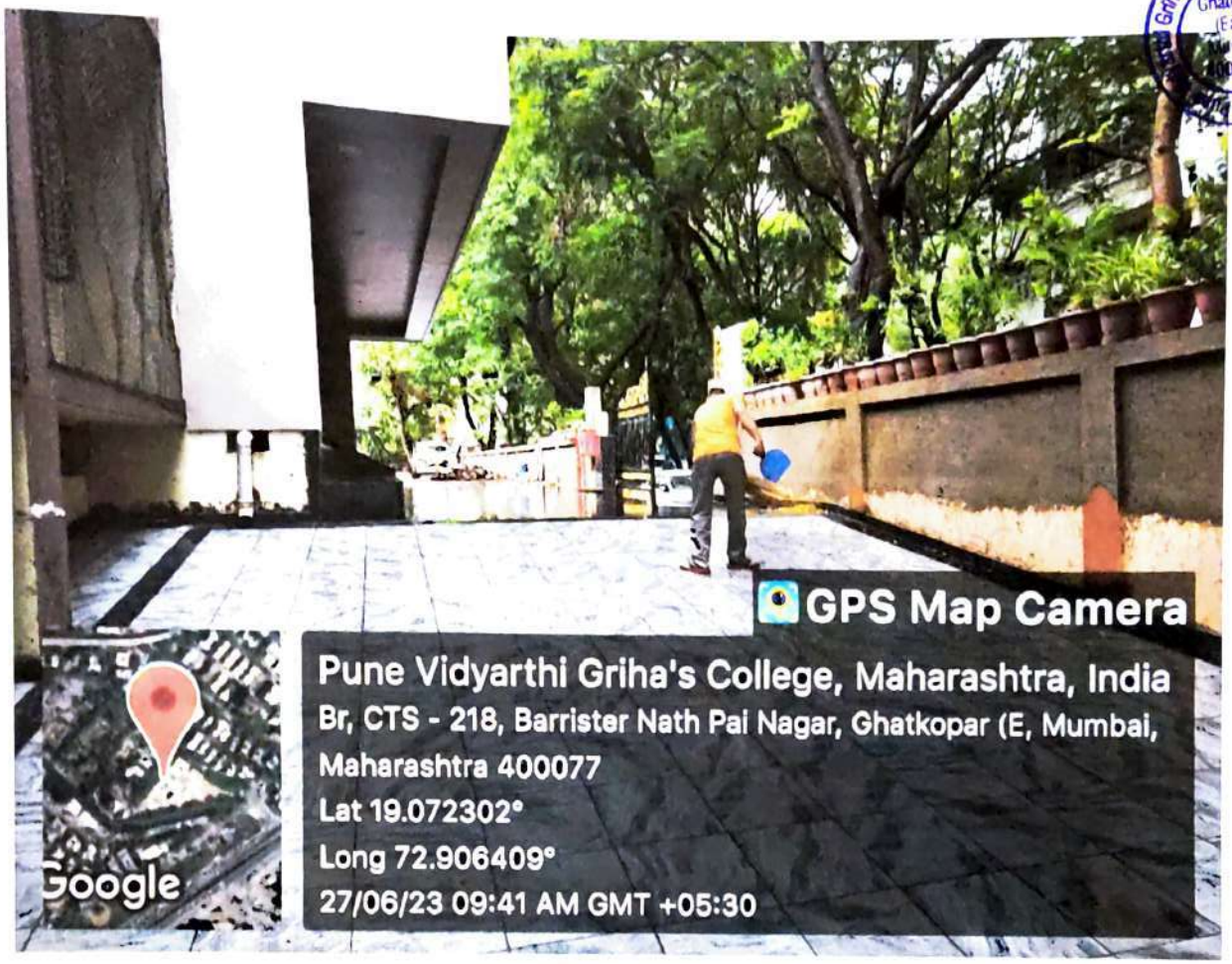

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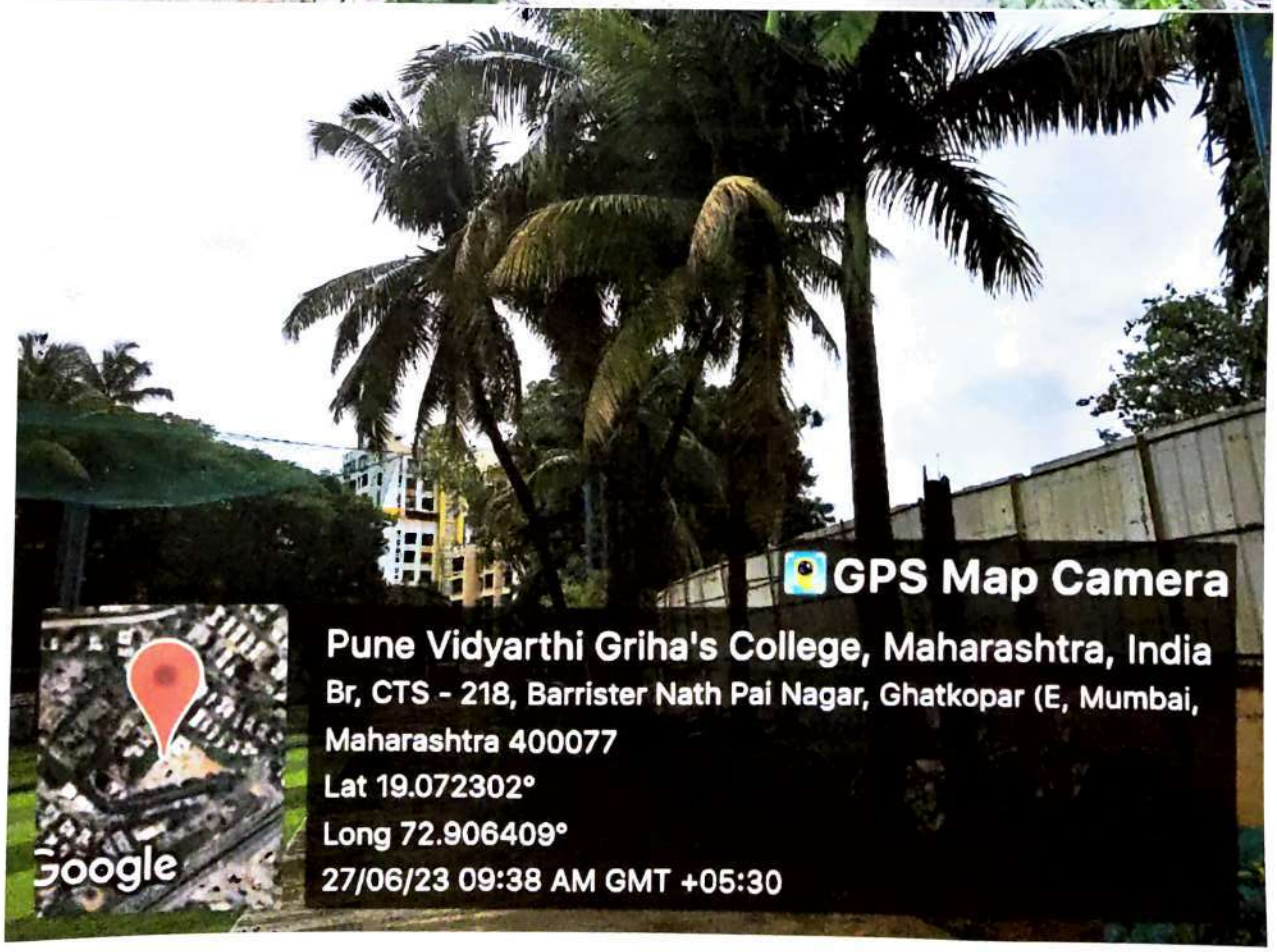

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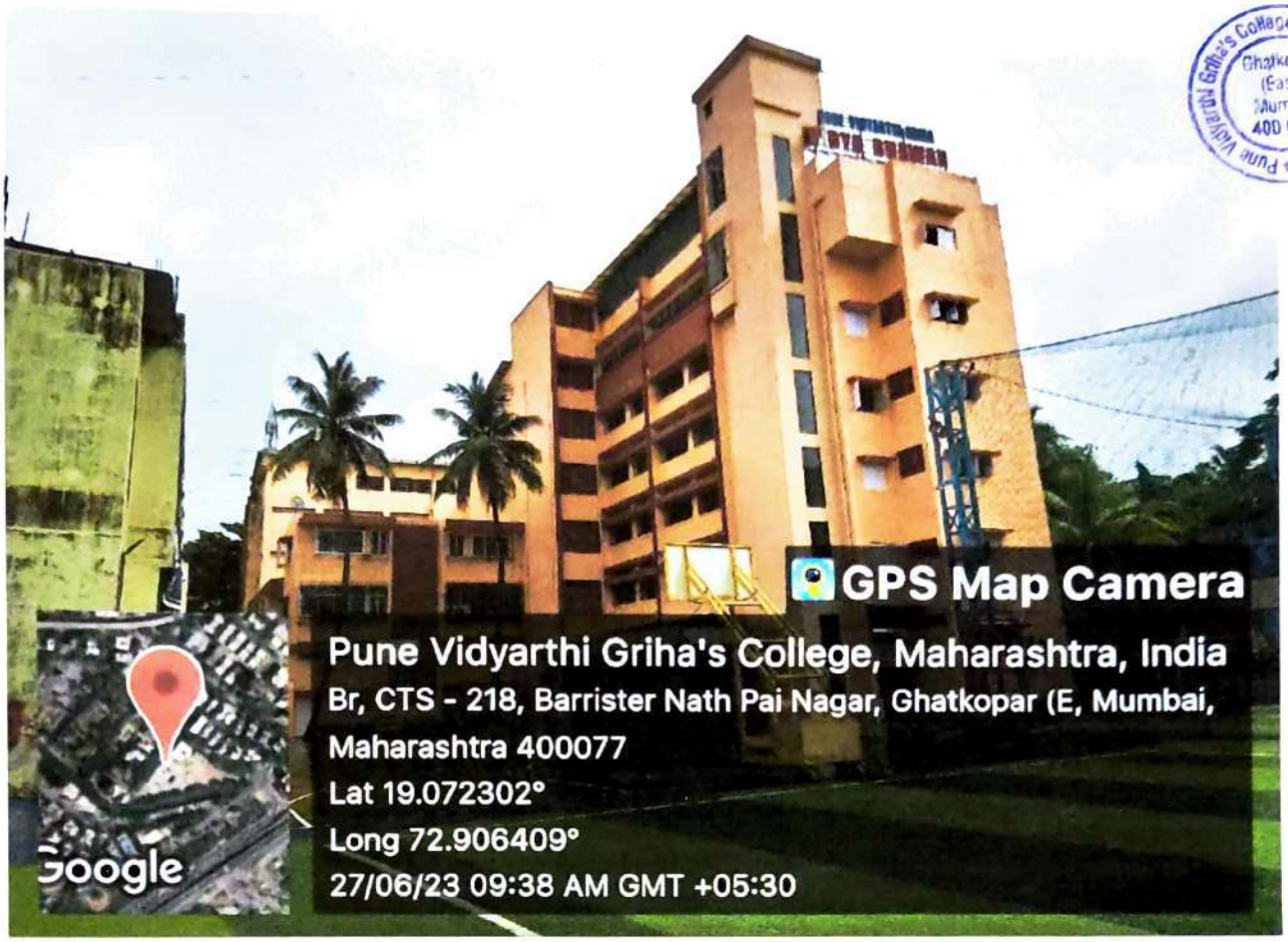

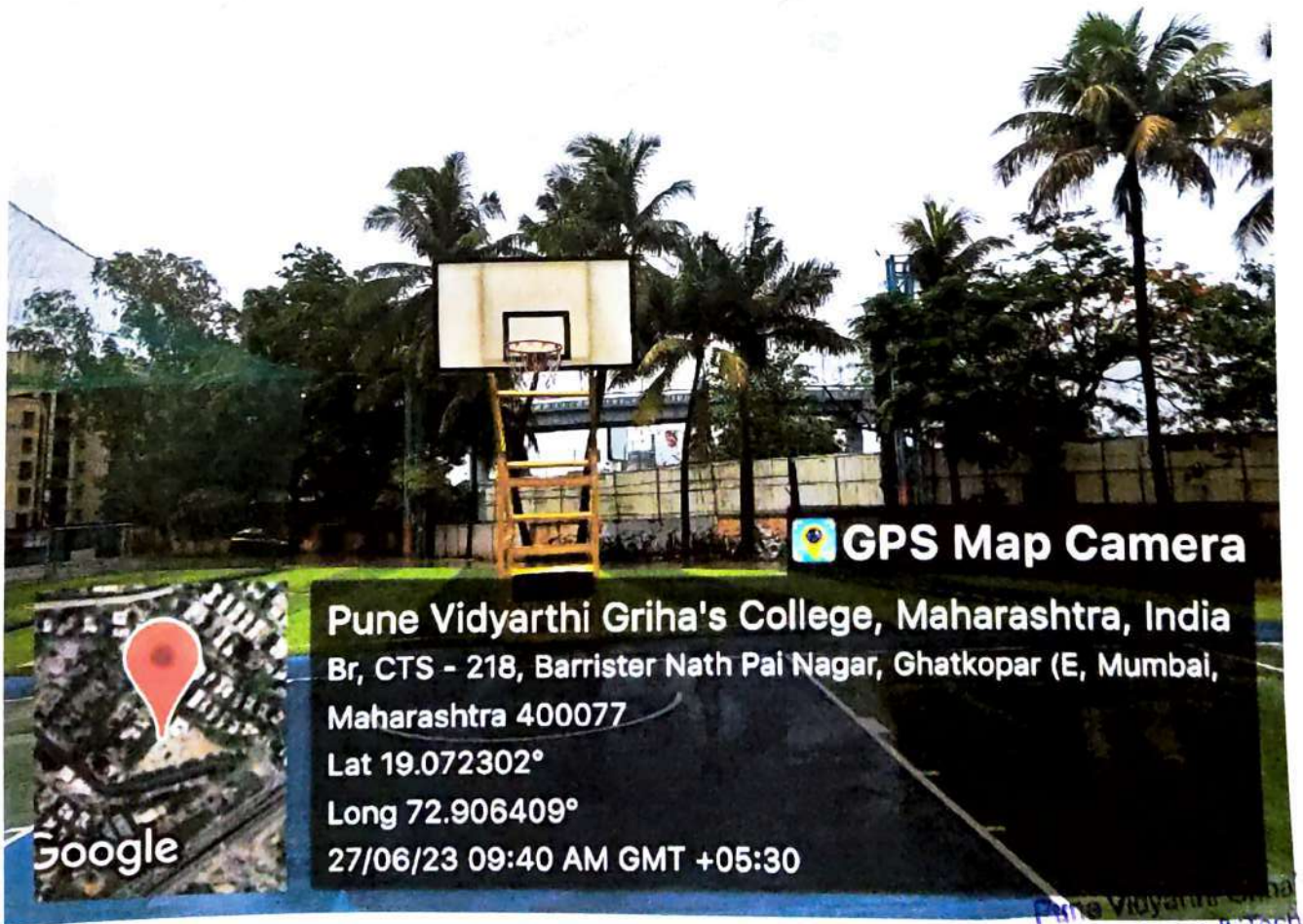

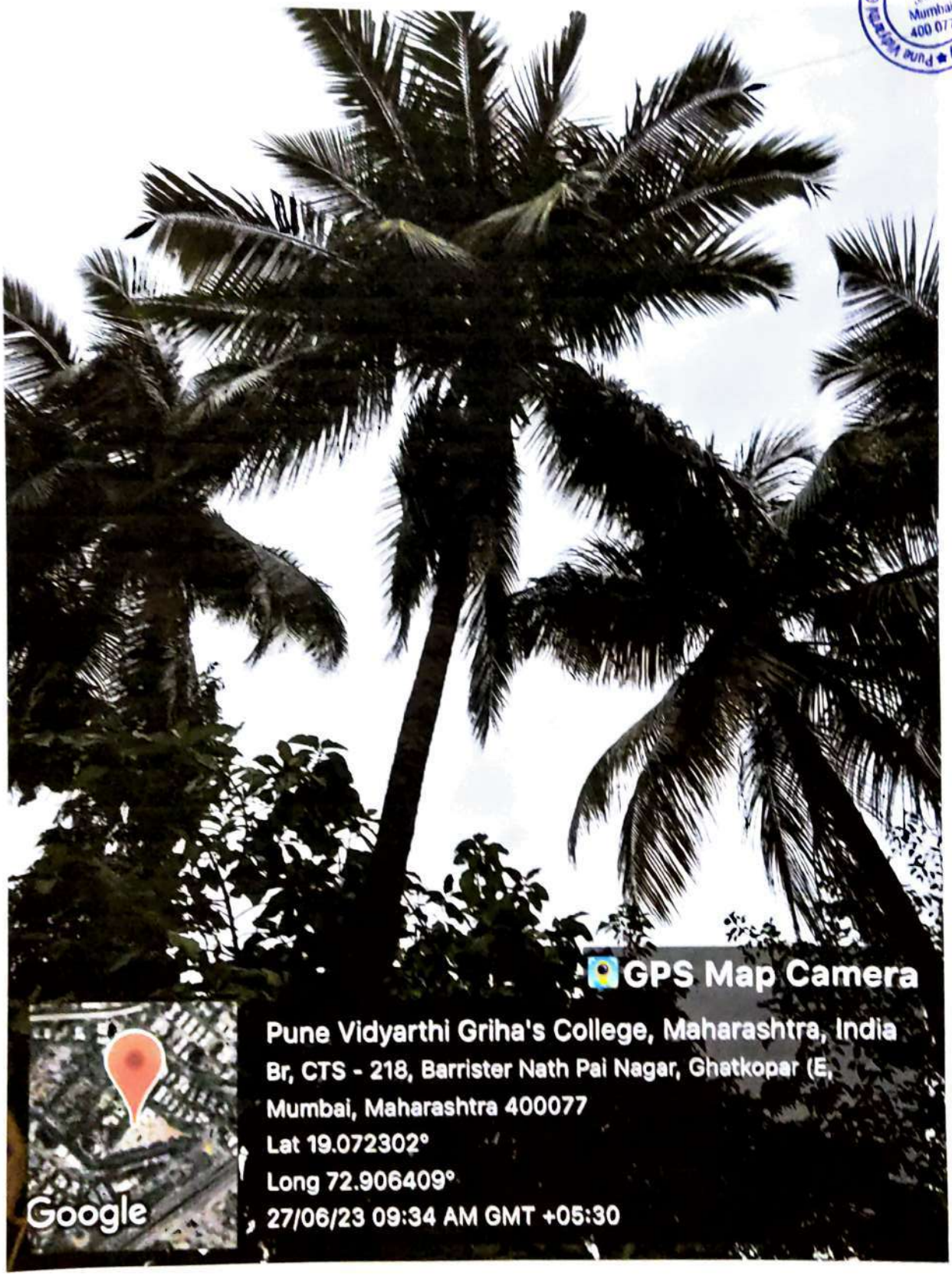

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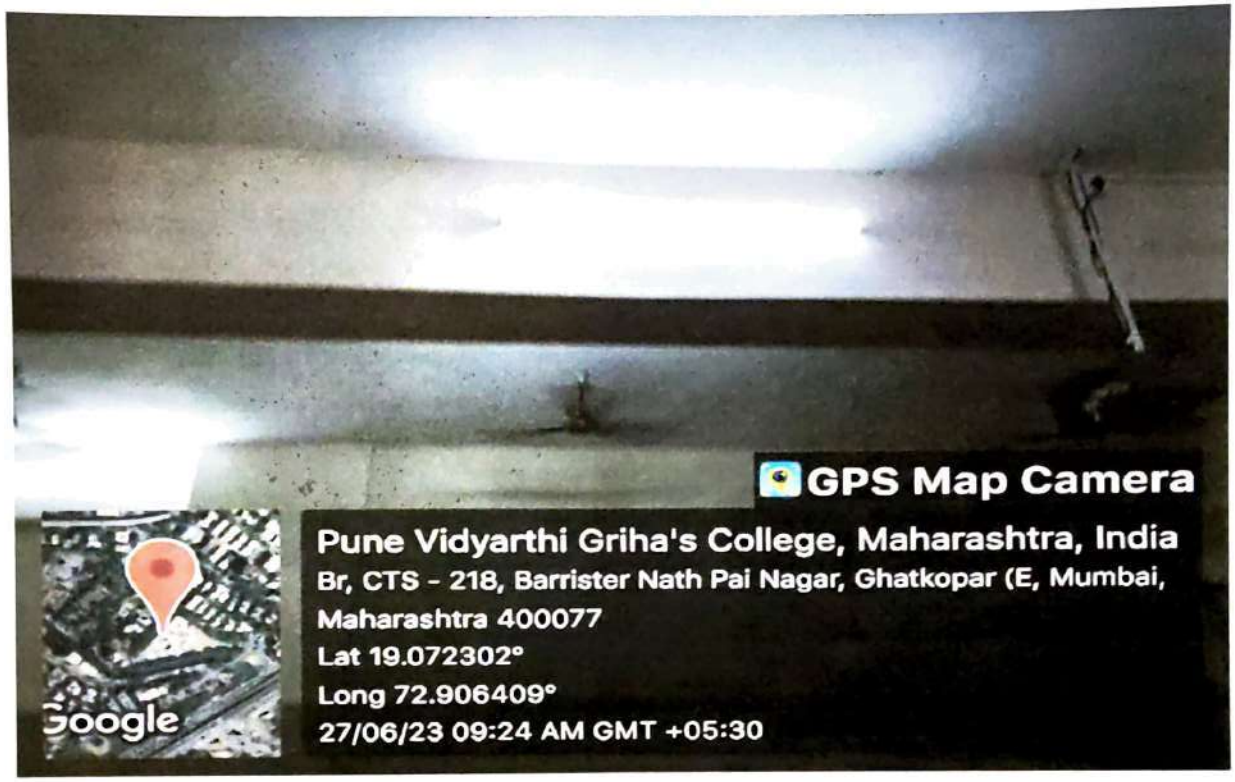
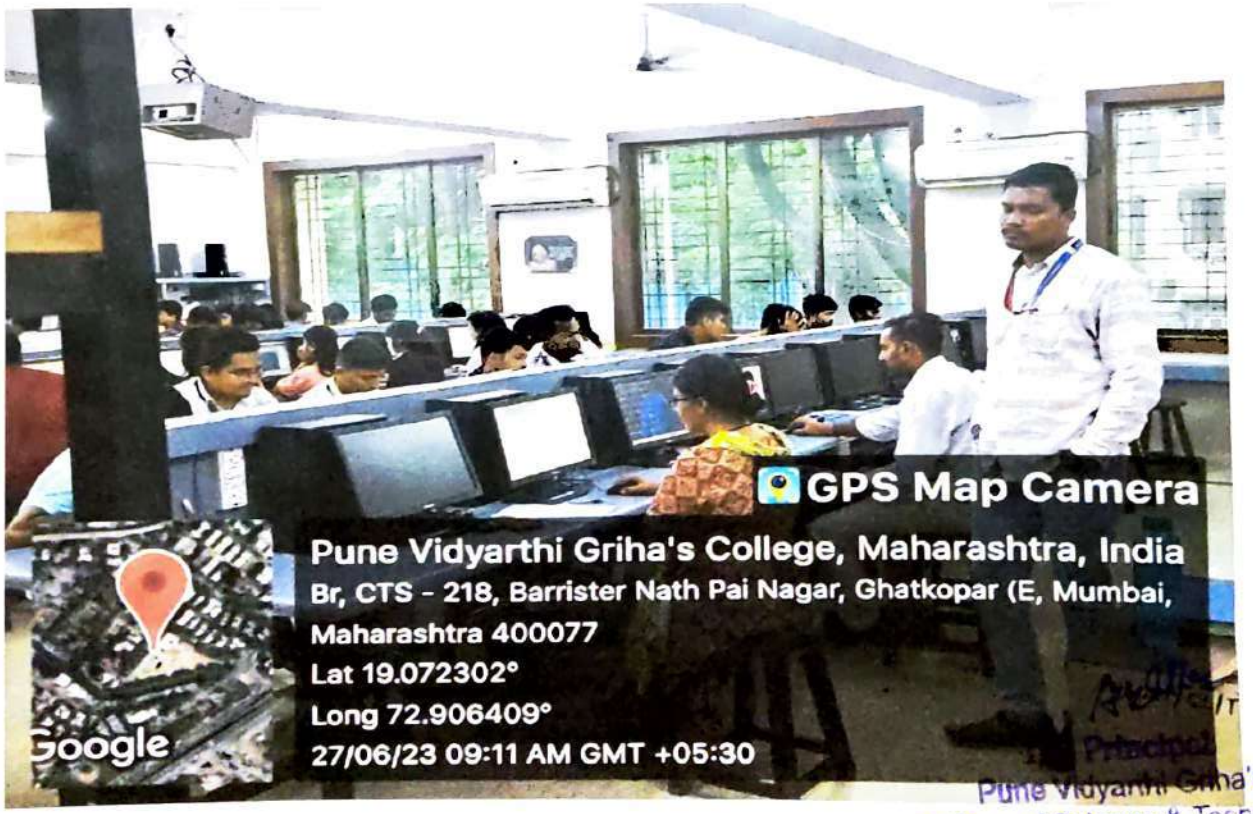
Illuminating a Sustainable Future: Harnessing LED Lights for a Greener Campus





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Details of the Activities conducted for Environmental Promotional activities conducted beyond the campus

A.Y. 2019-2020

Sr. No.	Name Of the Activity	Date of the activity conducted	Faculty in charge	Venue
1	7 Days NSS Residential Camp	09/12/2019 To 15/12/2019	Prof. Gaurav Singh	Village Makunsar (Sapahale), District Palghar

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Details of the Activities conducted for Environmental Promotional activities conducted beyond the campus

A.Y. 2021-2022

Sr. No.	Name Of the Activity	Date of the activity conducted	Faculty in charge	Venue
1	Beach Cleaning Day	26th September, 2021	Prof. Meena Patel	Versova Beach
2	Beach Cleaning Day	2nd October, 2021	Prof. Gaurav Singh	Versova Beach
3	World Environment Day	5th June, 2021	Prof. Meena Patel	Google Meet Online
4	7 Days NSS Residential Camp	21/03/2022 To 27/03/2022	Prof. Gaurav Singh	Village Makunsar (Sapahale), District Palghar

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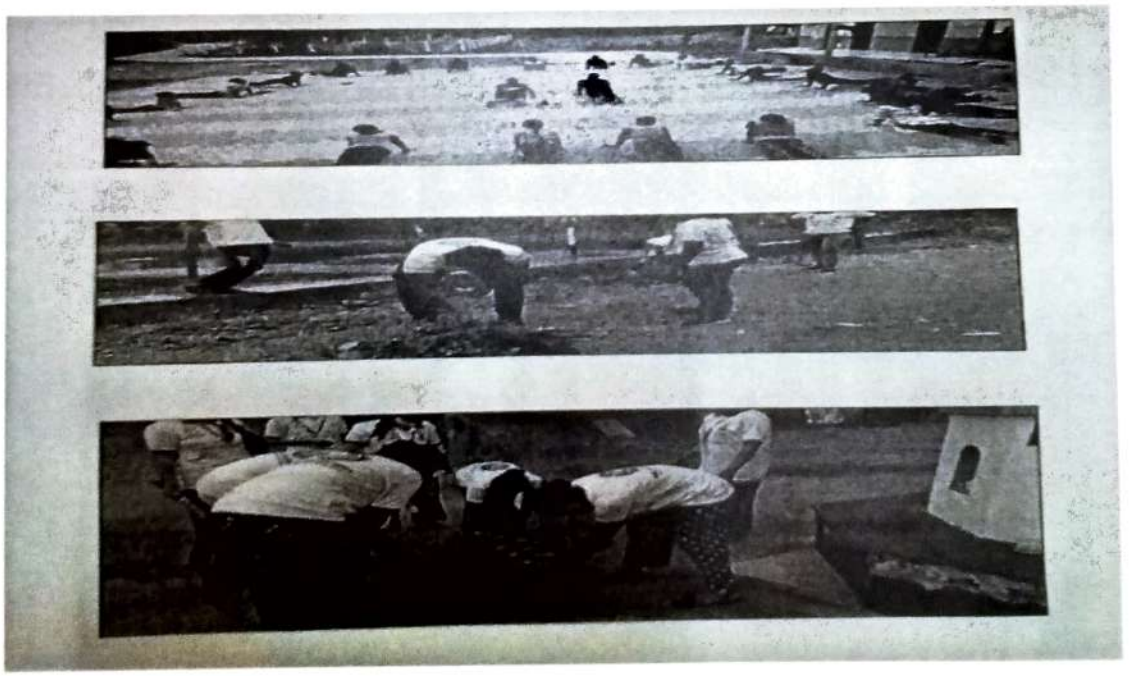
7 Days NSS Residential Camp

Place: At Village Makunsar (Sapahale), District Palghar
Date: 09/12/2019 To 15/12/2019
No. Of Volunteers: 25

During the 7 Days Residential Camp at Village Makunsar (Sapahale), District Palghar, from 09/12/2019 to 15/12/2019, a group of 25 dedicated volunteers actively engaged in various activities aimed at community development and social welfare. The camp began with orientation and cleaning of the camp areas, followed by observation of the village. Throughout the camp, the volunteers participated in exercises, yoga, and cleaning initiatives, focusing on public spaces like the temple premises, nearby lake area, and the Gram Panchayat premises. They also contributed to unblocking the canal connected to the lake and conducted beach cleaning activities. The camp featured a street play and rally to raise awareness about organ donation, along with a Bhajan Sandhya at the temple. A visit to a government school allowed volunteers to interact with students and engage in activities like dancing, singing, drawing, and assisting in voter ID registration. Voter ID and Ayushman Bharat registration, along with street play practice, were conducted on separate days. The camp concluded with a powerful street play on blood donation and facilitating Ayushman Bharat registration. Overall, the camp proved to be a successful endeavor, promoting community engagement and addressing important social causes in Village Makunsar.



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BEACH CLEANING DAY

On September 26, 2021, the DLLE department and NSS Unit of Pune Vidyarthi Griha's College of Science and Technology joined forces to organize a Beach Cleaning Day at Versova Beach. The event took place in celebration of World Rivers Day. Prof. Meena Patel inaugurated the event, and students, volunteers, and NSS unit members actively participated in the beach cleaning activities with great enthusiasm. Diligently working for several hours, the team successfully cleaned the beach, demonstrating their dedication to environmental conservation. Refreshments were provided to all participants, and memorable pictures were taken to capture the event's spirit.

Additionally, on October 2, 2021, the NSS Unit conducted another Beach Cleaning Activity at Versova, aligning with their goal of raising awareness about marine pollution and reducing garbage and plastic in the ocean. The collected garbage was handed over to the BMC workers for proper processing. These combined efforts reflect the college's commitment to promoting a clean and sustainable environment.

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World Environment Day

On June 5, 2021, the DLLE Department of PVG College of Science and Technology organized an activity in commemoration of World Environment Day. The primary objective of this activity was to raise awareness about the critical role the environment plays in our lives. The participants of this activity were referred to as T.R.E.E.N.A.G.E.R.S. The event commenced with an introduction about the environment and the significance of World Environment Day. The participants shared insights on the positive impacts of the environment and shed light on various environmental disasters that have occurred in the past two years, some of which were natural while others were caused by human errors. Additionally, participants shared simple yet effective tips to promote tree growth and preserve the environment. The activity concluded with a powerful slogan, "Join Hands to Save the Environment."

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7 Days NSS Residential Camp

Place: At Village Makunsar (Sapahale), District Palghar

Date: 21/03/2022 To 27/03/2022

No. Of Volunteers: 25

During the 7 Days Residential Camp at Village Makunsar (Sapahale), District Palghar, from 21/03/2022 to 27/03/2022, a group of 25 dedicated volunteers engaged in various activities aimed at community development and social welfare. The camp began with an orientation and cleaning of nearby camp areas, followed by observation of the village on the first day. Subsequent days included exercises, yoga, and cleaning of public spaces such as temple premises, the nearby lake area, and the Gram Panchayat premises. The volunteers also worked on unblocking the canal connected to the lake and participated in beach cleaning activities. On the fourth day, they organized a street play and rally to raise awareness about organ donation, along with a Bhajan Sandhya at the temple. The fifth day involved a visit to a government school where volunteers engaged in activities like dancing, singing, drawing, and assisting in the voter ID registration process for the villagers. The sixth day focused on voter ID and Ayushman Bharat (Health Card) registration, as well as practicing street plays. The camp concluded on the seventh day with a street play promoting blood donation and facilitating Ayushman Bharat registration. Overall, the camp was a successful endeavor, fostering community engagement and promoting social causes in Village Makunsar.

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ecoTECH recycling

An EMS ISO 14001 & OHSAS 18001 Certified

Certificate of E-waste Disposal

R.C. No.: 742/04/22 Issue Date : 18/04/2022

This is to certify that the E-waste received from DLLE of Pune Vidyarthi Griha's College of Science & Technology

Total quantity received 10 Kgs./~~Nos.~~

has been disposed off as per environment friendly manner,

Your support will help us to get a better future for the Globe.

Type of Material : EWaste

Material Pickup Date : 18/04/2022

For Eco Tech Recycling

Authorised Signature

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