## 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 |

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

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

## 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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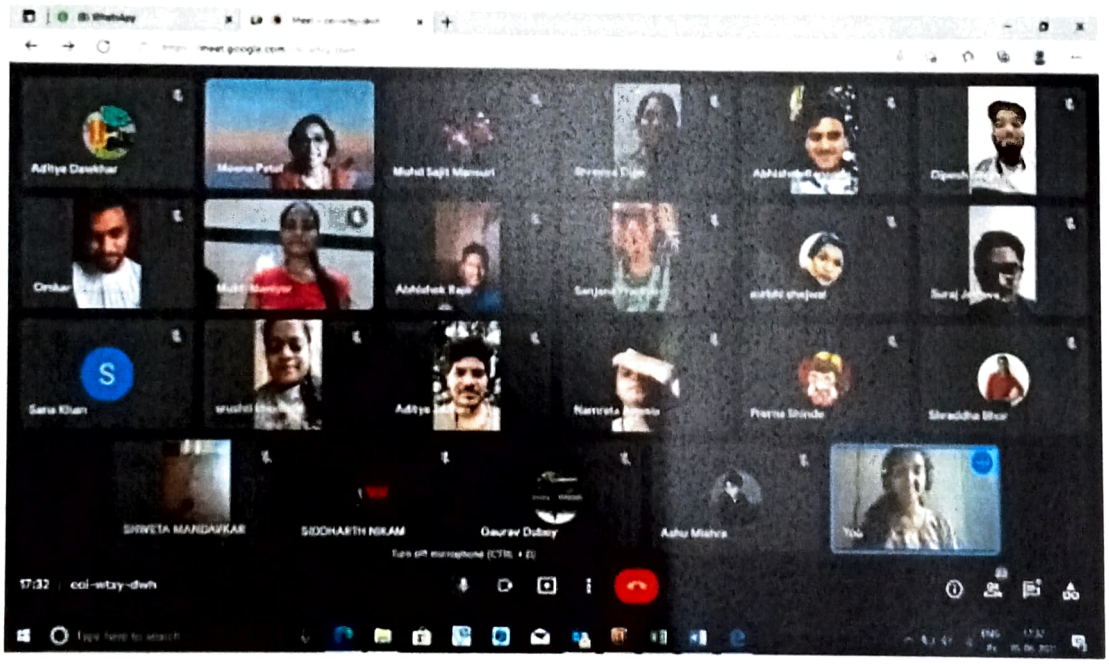
# World Environment Day

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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Ghatkopar (East) Mumbai 400 077.

# 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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Pune Vidyarthi Griha's
College of Science & Technology

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

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

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Pune Vidyarthi Griha's
College of Science & Technology

# 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-

AEC
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

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

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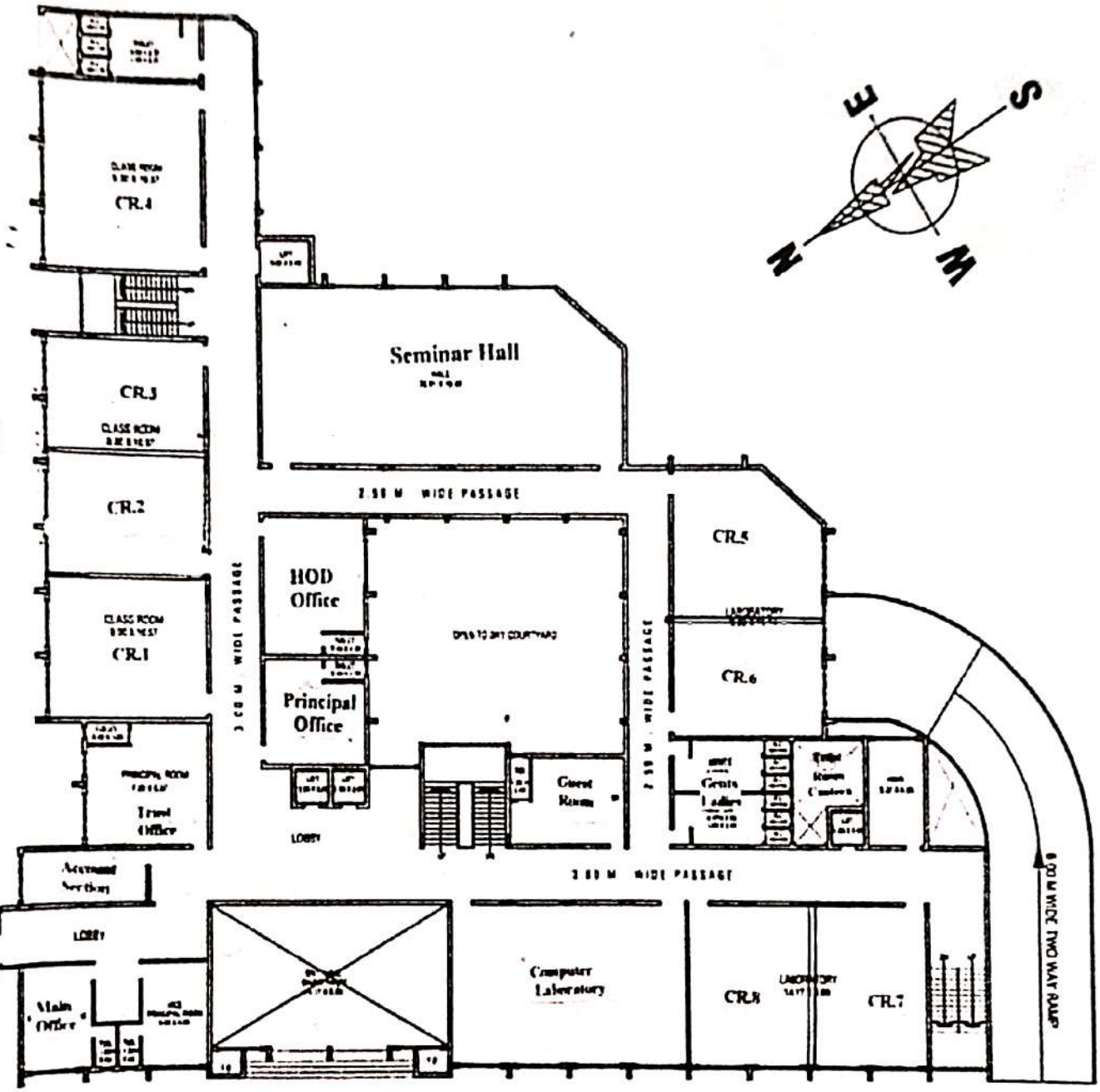



ground floor plan

Electrical Layout

FOR - PUNE VIDYARTHI GRIHA

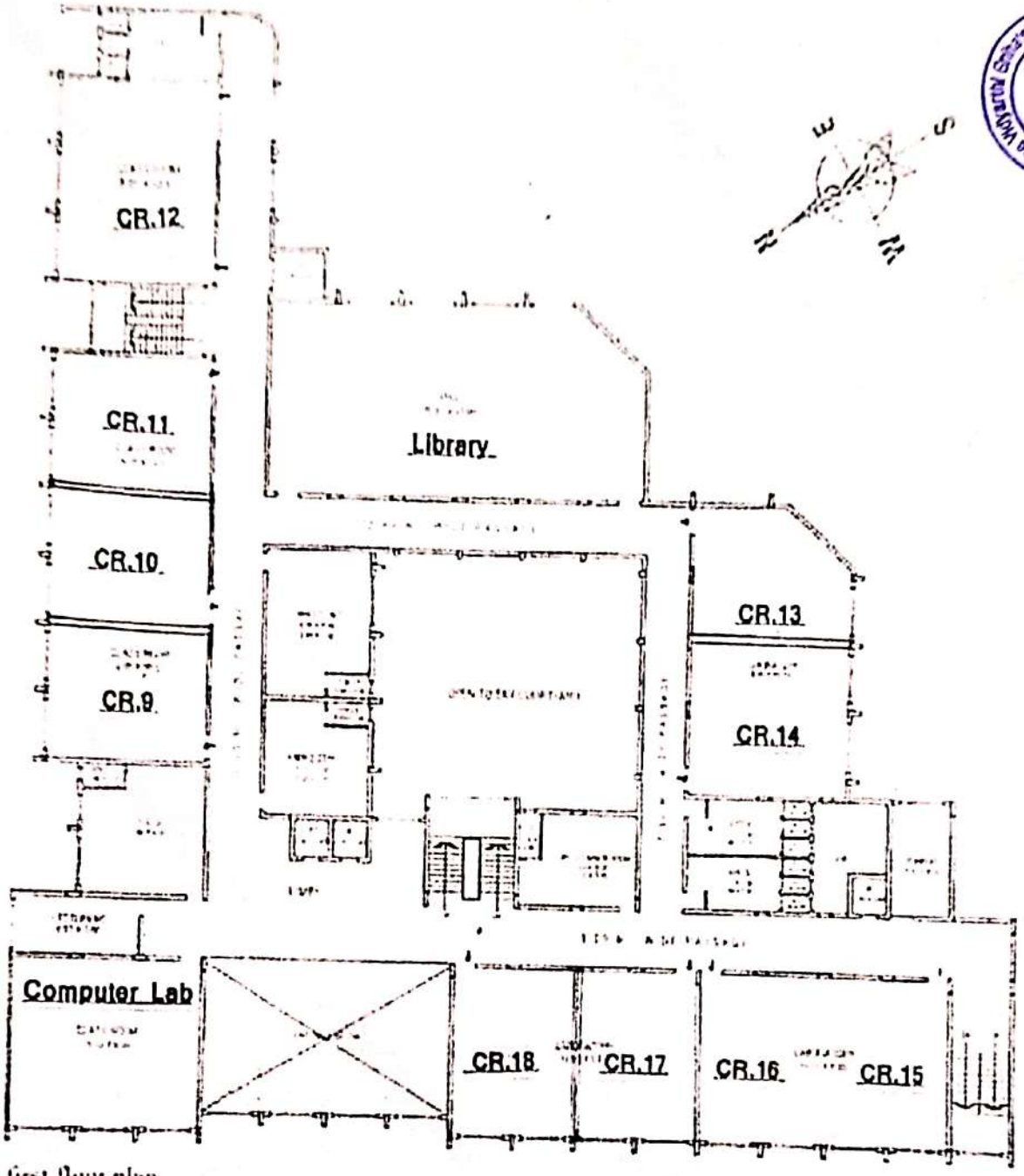
PLAN OF THE PROPERTY BEARING NO 218 OF VILLAGE GHATKOPAR AT NATH PAI NAGAR GHATKOPAR (EAST)

Architect
bhupendra patrawala

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



12 APR 2023




first floor plan

**Electdical Layout**

FOR - PUNE VIDYARTHI GRIHA

PLAN OF THE PROPERTY BEARING NO 215 OF
VILLAGE GHATKOPAR AT NATHPAI NAGAR
GHATKOPAR EAST

Architect
bhupendra patrawala

# 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. C.B. 8, Hingwala Lane, Ghatkopar (E), Mumbai - 400075. M : 98210[illegible]395 / 98922[illegible] / 98[illegible] • E : [illegible]

## 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.)

Refr. - Public Service tariff -Account No. 151923385 -Meter No. SMI20014429 (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 = 231 W | 0.23KW |
| 2 | FAN Ceiling | 06 | 92 | 06 x 92 Watts = 542 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 | 09 | 40 | 09x 40 Watts = 270W | 0.75 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 | 92 | 01x 92 Watts = 92 W | 0.09. KW |
| 11 | 05 AMP SOCKETS | 1 | 92 | 01x 92 Watts = 92 W | 0.09. KW |
| | Office Ladies Toilet Grd Floor | | | | Total 0. 18 KW |
| 12 | Tube Light | 02 | 20 | 01x 40 Watts = 40 W | 0.04 KW |
| 13 | 05 AMP SOCKETS | 1 | 92 | 01x 92 Watts = 92 W | 0.09 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 | 92 | 01 x92 W = 92 Watts | 0.092 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 | 0.80 KW |
| 19 | Printers | 1 | 100 | 1x 100 Watts | 0.10 KW |
| | | | | TOTAL LOAD | 1.254 KW |

**TOURIST 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 | -2.05 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 |

12 APR 2023

| | | | | | |
|---|---|---|---|---|---|
| 60 | Air Condition | 01 x 2800 Watts | Total Wattage = 28000 W | 28000Watts | 28 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 | 6262 Watts 6.26 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<br>- Speaker | 01x 120 Watts<br>06x 20 Watts | Total Wattage = 120 W<br>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 |

12 APR 2023

**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<br>07 x 20W<br>02 x 50W<br>02 x 250W | Total Wattage= 640Watts<br>Total Wattage= 140Watts<br>Total Wattage= 100Watts<br>Total Wattage= 500Watts | 640 Watts<br>140 Watts<br>100 Watts<br>500 Watts | 0.64 KW<br>0.14<br>0.1<br>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,

Proprietor

M.C.12615 / M.S.30999

# 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 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 |

| | | | | | |
|---|---|---|---|---|---|
| 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 |



12 APR 2023

**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 |
| 58-60 | 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 |

12 APR 2023

## Load Summary

| | |
|---|---|
| Sr No 1-08 | 30.3 KW |
| Sr No 09-11 | |
| Sr No 12-14 | |
| Sr No 15-17 | |
| Sr No 18-20 | |
| Sr No 21-23 | |
| 1-23 | 30.3 KW |

| | |
|---|---|
| 24-26 | |
| 27-29 | |
| 30-32 | |
| 33-35 | |
| 36-38 | |
| 24-38 | 9.68 |

| | |
|---|---|
| 39-41 | |
| 42-44 | |
| 45-48 | |
| 47-49 | |
| 49-50 | |
| 39-50 | 2.29KW |

| | |
|---|---|
| 51-57 | |
| 58-60 | |
| 61-63 | |
| 64-66 | |
| 69-71 | |
| 72-74 | |
| 75-78 | |
| 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

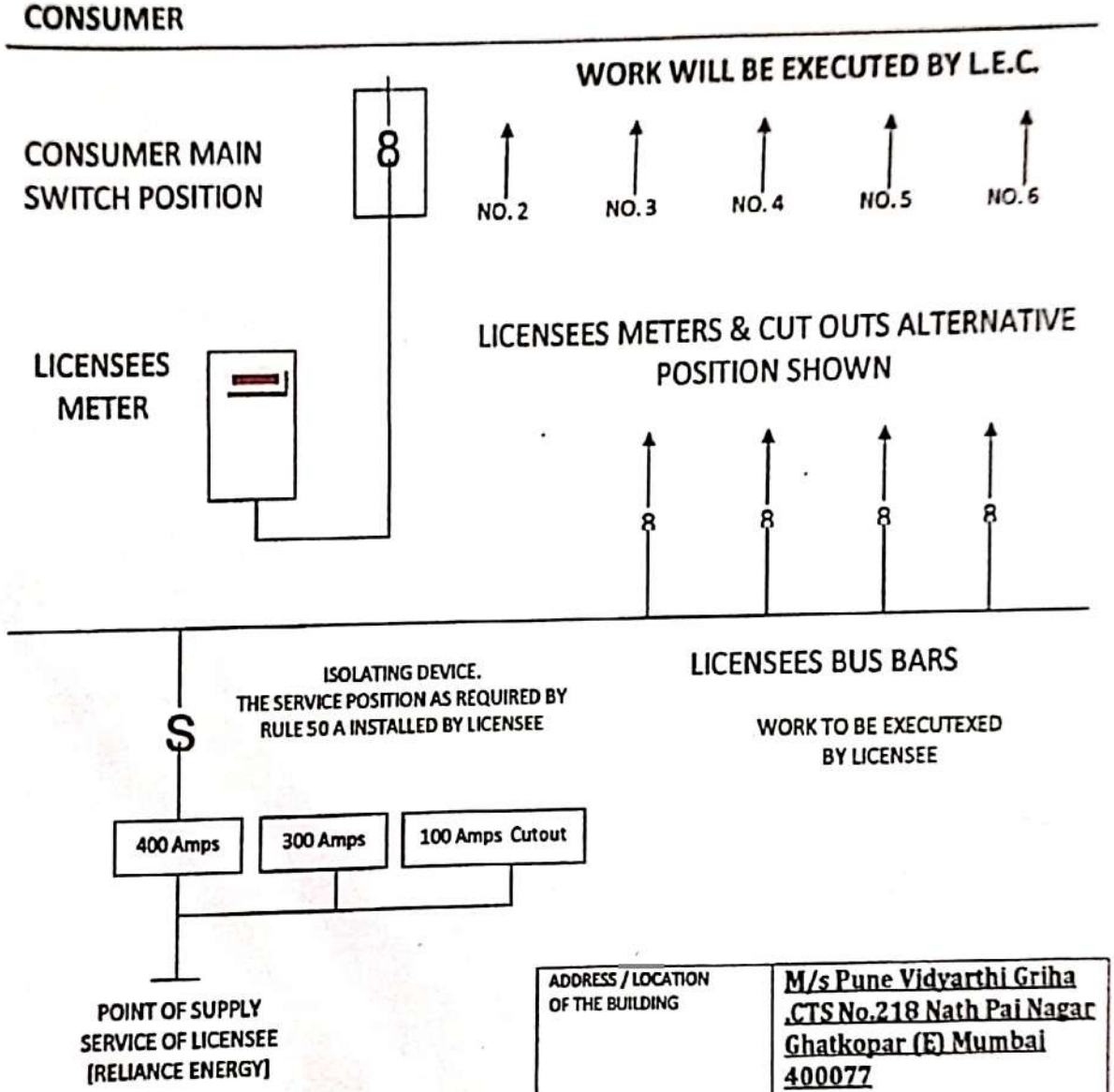
For Ashok Electric Corporation,

Proprietor

M.C.12615 / M.S.30999

12 APR 2023

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



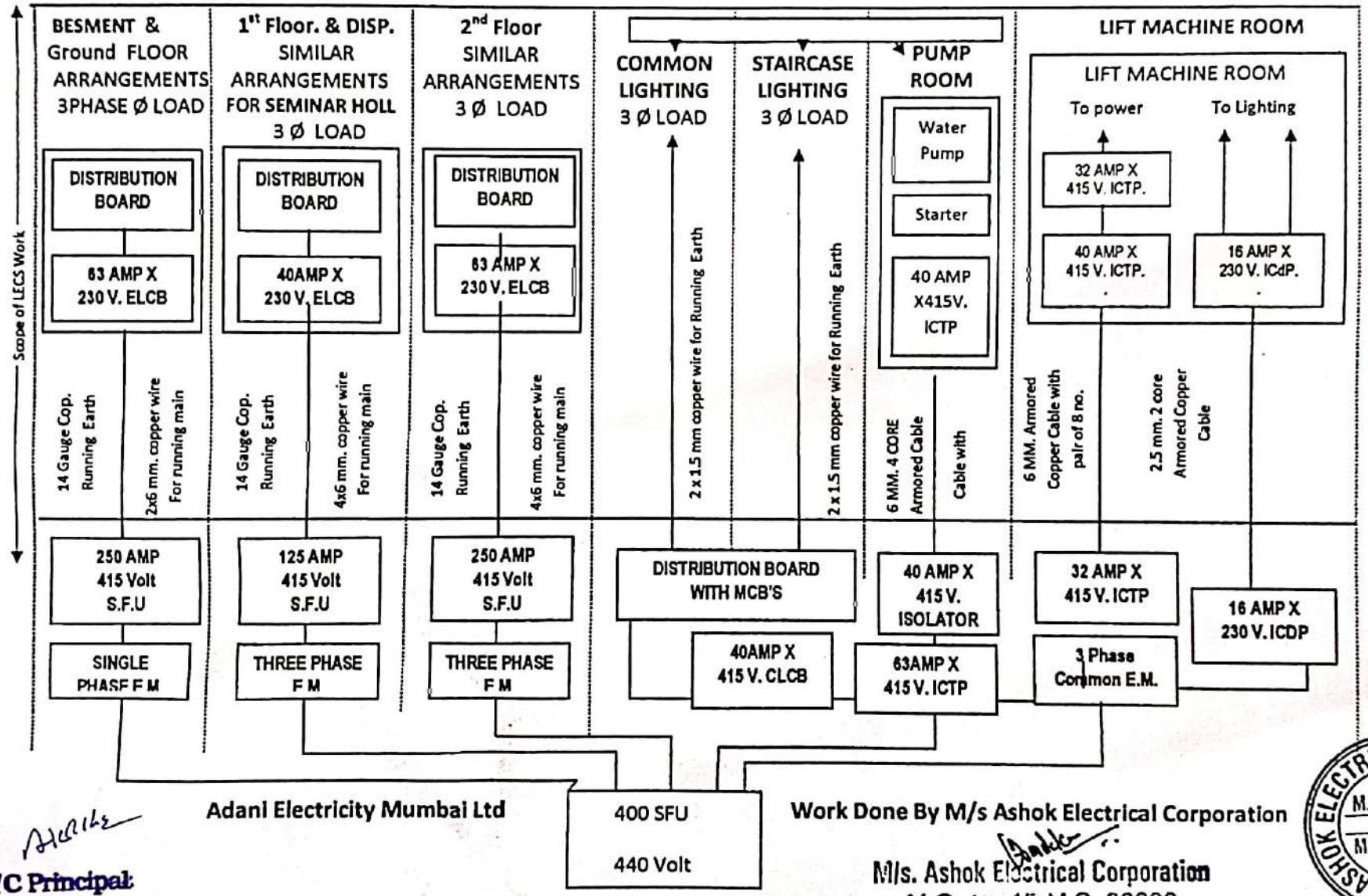

| | |
|---|---|
| ADDRESS / LOCATION OF THE BUILDING | M/s Pune Vidyarthi Griha ,CTS No.218 Nath Pai Nagar Ghatkopar (E) Mumbai 400077 |
| NAME OF THE BUILDER | M/s Pune Vidyarthi Griha |
| NAME OF THE LICENSED ELECTRICAL CONTRACTOR | M/s. Ashok Electrical Corporation. Mumbai .75 |
| STIPULATED TIME PERIOD FOR COMPLETION OF WORK | Part Work Done Basement & Ground First Floor Completed. 11an 2014 |

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

ASHOK ELECTRICAL CORPORATION M.C.-12515 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




Adani Electricity Mumbai Ltd

Work Done By M/s Ashok Electrical Corporation

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

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

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

# 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

# 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 2017 - May, 31st 2019**

Date of Issue: 4th June 2017

**(Dr. Pramod Salaskar)**
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

# CERTIFICATE OF GREEN AUDIT

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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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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**

Date of Issue: 6th June 2021

**(Dr. Pramod Salaskar)**
Dharitree Enviro Research Centre

॥ श्री ॥
PUNE VIDYARTHI GRIHA'S
COLLEGE OF SCIENCE & TECHNOLOGY
Affiliated to University of Mumbai (College Code : 866)
CTS No : 218, Br. Nath Pai Nagar, Ghatkopar (East), Mumbai - 400 077 Tel. : 022-2506 9118
Email: pvgcst@yahoo.com • Website: www.pvgcst.in

# ENVIRONMENTAL AUDIT REPORT

## (2021 – 2023)

For Dharitree Enviro Research Centre

Proprietor

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 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....**

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 criticism & suggestion during the composition of work of entire," Environmental 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

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

**Principal Message....**

I express my hearty wishes for success of this publication of 'Environmental 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 Environmental Audit Report for the new beginning of the conservation from the doorstep of the people.
Our green audit reriects 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

## INDEX



I/C Principal
Pune Vidyarthi Griha's
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 | |
| 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

**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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## 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:

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

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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 Vidya Bhavan Campus**

| | |
|---|---|
| Country | India |
| State | Maharashtra |
| District | Mumbai |
| City | Mumbai |
| Area | Ghatkopar East |
| Elevation | 20 meters |
| Population | **Population (2020):** 146056 |
| | **Male Population:** 76084<br>**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

**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
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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

For Dharitree Enviro Research Centre

Proprietor

I/C Principal
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) 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

Proprietor

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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 ($^0$C) | 26 | Humidity (%) | 45 |
| Wind Speed (km/hr) | 09 | Wind Direction (deg$^0$) | 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/m$^3$ | 100.00 | IS 5182 (Part 23): 2006 (RA 2022) |
| $PM_{2.5}$ | 33 | µg/m$^3$ | 60.00 | EPA Quality assurance guidance document 2.12, based on CPCB- 2011 |
| $SO_2$ | 16 | µg/m$^3$ | 80.00 | IS 5182 (Part 2): 2001 (RA 2022) |
| $NO_2$ | 22 | 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 | 0.97 | 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 ($O_3$) | 14 | 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

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 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

For Dharitree Enviro Research Centre

Prop...or

I/C Principal
Pune Vidyarthi 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 | Leiothrichidae | *Turdoides striatus* | Jungle Babbler | Least Concern ver 3.1 | Schedule -IV | Omnivorous | R |
| 10 | Dicruridae | *Dicrurus macrocercus* | Black Drongo | Least Concern ver 3.1 | Schedule - IV | Omnivorous | R |
| 11 | Sturnidae | *Acridotheres tristis* | Common Myna | Least Concern ver 3.1 | Schedule - IV | Omnivorous | R |
| 12 | Muscicapidae | *Copsychus saularis* | Oriental Magpie-Robin | Least Concern ver 3.1 | -- | Insectivorous & Herbivorous | R |
| 13 | 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. | Vegeta tion type | No. of 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 |

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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 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.

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**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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## 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.

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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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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

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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**

I/C Principal
Pune Vidyarthi 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 „ 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.

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PUNE VIDYARTHI GRIHA'S
COLLEGE OF SCIENCE & TECHNOLOGY
Affiliated to University of Mumbai (College Code : 866)
CTS No : 218, Br. Nath Pai Nagar, Ghatkopar (East), Mumbai - 400 077 Tel. : 022-2506 9118
Email: pvgcst@yahoo.com • Website: www.pvgcst.in

# GREEN AUDIT REPORT

## (2021 – 2023)

For Dharitree Enviro Research Centre

Proprietor

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



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**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.

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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

For Dharitree Enviro Research Centre

Proprietor

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

## 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 | |

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## INDEX



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
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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°54.231'E |

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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 |
| 28 | *Tectona grandis* | Sagwan | 19°04.183'N ; 72°54.227'E |
| 29 | *Tectona grandis* | Sagwan | 19°04.183'N ; 72°54.222'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 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Record 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) |
| Average 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) |
| Average 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) |
| Record 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) |
| Average rainfall mm (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) |
| Average 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

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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 Vidya Bhavan Campus**

| | |
|---|---|
| Country | India |
| State | Maharashtra |
| District | Mumbai |
| City | Mumbai |
| Area | Ghatkopar East |
| Elevation | 20 meters |
| Population | **Population (2020):** 146056 |
| | **Male Population:** 76084<br>**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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**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

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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 | Leiothrichidae | *Turdoides striatus* | Jungle Babbler | Least Concern ver 3.1 | Schedule -IV | Omnivorous | R |
| 10 | Dicruridae | *Dicrurus macrocercus* | Black Drongo | Least Concern ver 3.1 | Schedule - IV | Omnivorous | R |
| 11 | Sturnidae | *Acridotheres tristis* | Common Myna | Least Concern ver 3.1 | Schedule - IV | Omnivorous | R |
| 12 | Muscicapidae | *Copsychus saularis* | Oriental Magpie-Robin | Least Concern ver 3.1 | -- | Insectivorous & Herbivorous | R |
| 13 | 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. | 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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| | | | |
|---|---|---|---|
| 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 |

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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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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.

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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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| 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

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| 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

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## 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 ($^0$C) | 26 | Humidity (%) | 45 |
| Wind Speed (km/hr) | 09 | Wind Direction (deg$^0$) | 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/m$^3$ | 100.00 | IS 5182 (Part 23): 2006 (RA 2022) |
| $PM_{2.5}$ | 33 | µg/m$^3$ | 60.00 | EPA Quality assurance guidance document 2.12, based on CPCB- 2011 |
| $SO_2$ | 16 | µg/m$^3$ | 80.00 | IS 5182 (Part 2): 2001 (RA 2022) |
| $NO_2$ | 22 | 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 | 0.97 | 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 ($O_3$) | 14 | 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$^3$), ($C_3H_5$ <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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Sports facilities at premises


Green Belt


Approach Road to college


Green belt in the college premises

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## PHOTOGALLERY


Fire Extinguishers

Plastic Waste Segregation Bin

Environmental Education program

Systematic Identification and Geo-Tagging of the flora

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**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.

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College of Science & Technology

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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.

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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.

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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

www.ecotechrecycling.in