

GV/ENVT/03-24/276

Environment Audit Certificate (As per Green Building Parameters)

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

It is awarded for **2022-2023 and 2023-2024** to the Esteemed Institution
(Analysed for 2 years and extended validity for 1 year, thus total 3 years)

Laxmi Charitable Trust's

Shri. Chinai College of Commerce & Economics

Dr.S.Radhakrishnan Marg, Andheri (East) Mumbai - 400069, Maharashtra, India

(Site visit held on 06 March 2024)

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

Issued on **Monday, 18 March 2024** and valid till **28 February 2025**

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"Elite 100 Green Architects of India" Econaur, 2022

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ENVIRONMENT AUDIT

STUDY PERIOD (TWO YEARS) 2022 – 2023 & 2023 - 2024

Sustainability study
AUDIT REPORT

Studied for

Laxmi Charitable Trust's

**Shri. Chinai College of
Commerce & Economics**

Dr.S.Radhakrishnan Marg, Andheri (East),
Mumbai - 400069, Maharashtra, India

Studied in the capacity of

Accredited and Certified GBP



Website: <https://thegreenviosolutions.co.in/>

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Disclaimer

The Audit Team has prepared this report for the **Laxmi Charitable Trust's Shri. Chinai College of Commerce & Economics** located Dr.S.Radhakrishnan Marg, Andheri (East) Mumbai - 400069, Maharashtra, India based on input data submitted by the Institute analysed by the team to the best of their abilities.

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

These can be implemented phase wise or as a whole depending on the decision taken by the internal team. The warranty or undertaking, expressed or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

The audit is a thorough study based on the inspection and investigation of data collected over a period of time and should not be used for any legal action. This is the property of Greenvio Solutions and should not be copied or regenerated in any form.

The Report is prepared by the Team of Greenvio Solutions under their brand and department – Sustainable Academe as Consultancy firm with the Project Head - Ar. Nahida Shaikh who is as an Accredited and Certified Green Building Professional-Architect. Green Building consultancy is her forte and she is one of the most sought after names when it comes to providing excellent quality services within the stipulated time frame.

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


Ar. Nahida Abdulla

Greenvio Solutions

Developing Healthy and Sustainable Environments

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Acknowledgement

The Audit Assessment Team extends its appreciation to the **Laxmi Charitable Trust's Shri. Chinai College of Commerce & Economics, Maharashtra** for assigning this important work of Environment Audit. We appreciate the cooperation extended to our team during the entire process.

Our special thanks are extended are due to everyone from the Management.

Our heartfelt thanks are extended to the Chairperson of the entire process **Dr.B.B.Kamble** (Principal) for the valuable inputs.

We are also thankful to Institute's Task force who have played a major role in data collection.

- ➔ Teaching staff member – **Prof. Ashok Bharsakle, Prof. Geeta Rathod, Prof. Florency D'souza & Prof. Kirti Rajne**
- ➔ Non-teaching staff member – **Mr. Kiran L. Patil**
- ➔ Admin staff member – **Mrs. Shraddha Pednekar**

Sustainable Academe

Brand of Greenvio Solutions, Palghar District, Maharashtra- 401208



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DETAILED REPORT



1. Introduction

1.1 About statements of the Institute

1.1.1 Vision

The Institute proposes

- To inculcate values of regularity, punctuality and discipline so that students grow up to be responsible citizens.
- To promote overall personality development of students via extracurricular activities like sports, advertising event, etc.
- To develop and prepare students for facing challenges in the competitive world by using their potential in academic and co-curricular activities
- To generate a sense of belonging towards the institution by mutual interaction between past and present students
- To utilize the college infrastructure for well-being of the students as well as the neighbourhood community

1.1.2 Mission

The Institute adheres and focuses

- To provide foundation for academic excellence
- To provide growth of through various extracurricular activities by overall development
- To build a strong environment for continuous teaching learning progress
- Develop students mind from entrepreneurial perspective and ensure correct decision making
- To enable students become responsible citizens



1.2 Assessment of the Institute

1.2.1 Affiliations

The course provided by the College is affiliated to the **University of Mumbai**, a Public State University in Mumbai, one of the largest university systems in the world.

1.2.2 Certification

The **All India Survey on Higher Education (AISHE)** code is C-34139

1.2.3 Recognitions

The College has been recognized under section [2 \(f\) and 12 \(B\) of the UGC Act, 1956](#) by University Grants Commission, New Delhi.

DETAILED REPORT



2. Overview

2.1 Summarised Populace analysis for 2023-2024

2.1.1 Students data

The data (shared by the Institute) shows there were **1,118 students**.

2.1.2 Staff data

| S. No. | Type | Male | Female | Total |
|----------------------------|--------------------|-----------|-----------|-----------|
| 1 | Admin staff | 05 | 03 | 08 |
| 2 | Teaching staff | 09 | 08 | 17 |
| 3 | Non-Teaching staff | 04 | 00 | 04 |
| Total Staff Members | | 18 | 11 | 29 |

Table 1: Staff data of the Institution for 2023-2024

The staff data shows the Institute premises had **29 Staff Members**.

2.2 Summarised Populace analysis for 2022-2023

2.2.1 Students data

The data (shared by the Institute) shows there were **1,179 students**.

2.2.2 Staff data

| S. No. | Type | Male | Female | Total |
|----------------------------|--------------------|-----------|-----------|-----------|
| 1 | Admin staff | 05 | 03 | 08 |
| 2 | Teaching staff | 09 | 08 | 17 |
| 3 | Non-Teaching staff | 04 | 00 | 04 |
| Total Staff Members | | 18 | 11 | 29 |

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

The staff data shows the Institute premises had **29 Staff Members**.



3. Research

3.1 Site Area

The **site area is 2.58 acres**

3.2 About the Green Building Study Audit

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

3.3 Analysis of the Green Building Study Audit

The procedure included detailed verification as follows:

- ➔ Investigation
- ➔ Technical
- ➔ Observations
- ➔ Inferences

3.4 Strategy adopted for Green Building Study Audit

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



4. Investigation

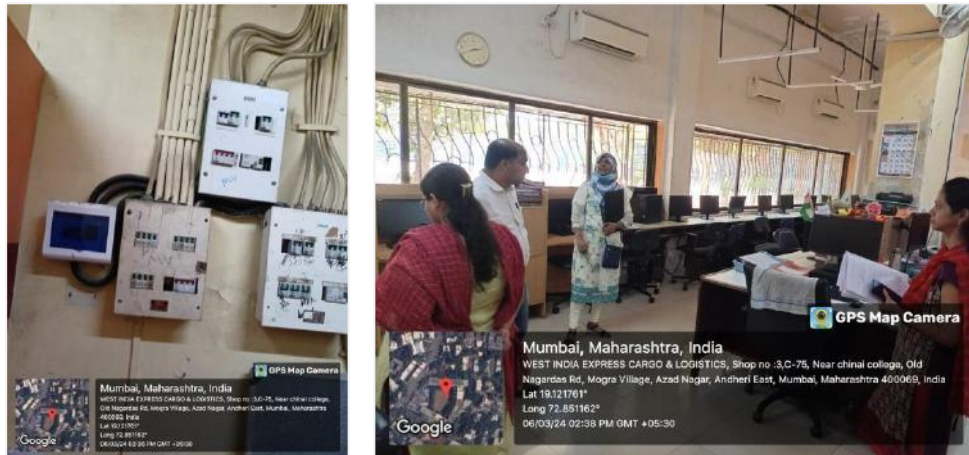


Plate 1: Assessment of the energy and electrical areas

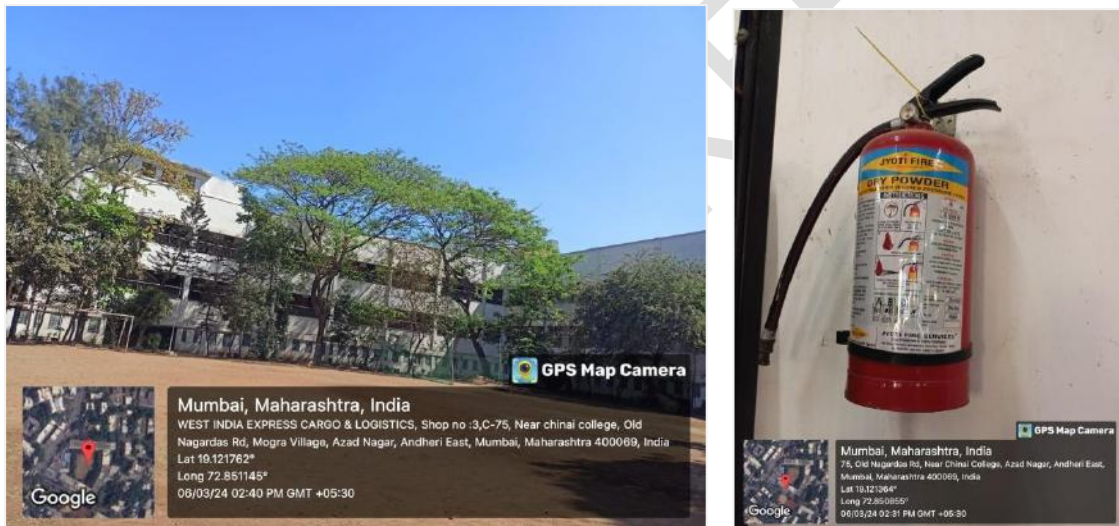


Plate 2: Open space with plantations and Fire and life safety measure through extinguishers in premises



Plate 3: Water areas including pipes and bore wells in the premises

5. Documentation

5.1 Open Spaces

The campus is located in an urban area, however it shares its premises with a sister Institute and has an exceptionally well-spaced open space surrounded with trees all over. This space is used as a recreational and sports activity area.

5.2 Flora audit

The common flora of the sister Institute and said premises as shared by the Internal team is documented below:

| S. No. | Plant name | Type | Nos. | Planted by |
|--------|---------------------------|-------|------|------------|
| 1 | Areca Palm | Plant | 1 | Gardener |
| 2 | Phyllanthus Emblica | Plant | 1 | Naturally |
| 3 | Canna Musaefoliarubra | Plant | 2 | Gardener |
| 4 | Manilkara Subsericea | Plant | 1 | Naturally |
| 5 | Dracaena Sp | Plant | 1 | Naturally |
| 6 | Singhoda Tanda | Tree | 1 | Naturally |
| 7 | Canna Musaefoliarubra | Plant | U.I. | Gardener |
| 8 | Euphorbia Tithymaloides | Shrub | 3 | Gardener |
| 9 | Schefflera | Plant | 1 | Gardener |
| 10 | Mimusops Balata | Plant | 1 | Naturally |
| 11 | Crinum Asiaticum | Plant | 1 | Gardener |
| 12 | Pedilanthus Tithymaloides | Plant | 1 | Gardener |
| 13 | Psychotrian Viridis | Plant | 1 | Gardener |
| 14 | Euphorbia Tithymaloides | Shrub | U.I. | Gardener |
| 15 | Fraxinus Americana | Tree | 1 | Naturally |
| 16 | Saraca Asoca | Tree | 6 | Naturally |
| 17 | Euphorbia Tithymaloides | Shrub | U.I. | Gardener |
| 18 | Mitragyna Speciosa | Tree | 2 | Gardener |
| 19 | Mitragyna Speciosa | Tree | U.I. | Gardener |
| 20 | Pithecellobium Dulce | Plant | 1 | Naturally |



| | | | | |
|----|--------------------------------------|-------|------|-----------|
| 21 | Cordyline Fruticosa | Plant | 5 | Gardener |
| 22 | Pritchardia Forbasiana | Plant | 1 | Naturally |
| 23 | Strobilanthes Crispa | Plant | 1 | Naturally |
| 24 | Manihot Esculant | Plant | 1 | Naturally |
| 25 | Aesculus Indica | Plant | 1 | Naturally |
| 26 | Chlorophytum Orchidastrum | Plant | 1 | Naturally |
| 27 | Strobilanthes Crispa | Plant | 1 | Naturally |
| 28 | Alstonia Macrophylla | Plant | 1 | Naturally |
| 29 | Prunus Amygdalus, Syn. Prunus Dulcis | Tree | 1 | Naturally |
| 30 | Acacia Mangium | Tree | 1 | Naturally |
| 31 | Asimina | Plant | 1 | Gardener |
| 32 | Monoon Longifolium | Plant | 1 | Gardener |
| 33 | Cordyline Fruticosa | Plant | U.I. | Gardener |
| 34 | Albizia Lebeck (L.)Benth. | Plant | 2 | Gardener |
| 35 | Cordyline Fruticosa | Plant | U.I. | Gardener |
| 36 | Peltophorum Africanum | Tree | 1 | Naturally |
| 37 | Cordyline Fruticosa | Plant | U.I. | Gardener |
| 38 | Neolamarckia Cadamba | Plant | 1 | Naturally |
| 39 | Euphorbia Tirucalli | Plant | 1 | Naturally |
| 40 | Cordia Dichotoma | Plant | 1 | Naturally |
| 41 | Graptophyllum Pictum | Plant | 1 | Naturally |
| 42 | Betula Nigra | Plant | 1 | Naturally |
| 43 | Neem | Tree | 2 | Staff |
| 44 | Pritchardia Remota | Plant | 1 | Naturally |
| 45 | Japanese Laurel | Plant | 1 | Gardener |
| 46 | Neem | Tree | U.I. | Staff |
| 47 | Tamarindus Indica | Plant | 1 | Naturally |
| 48 | Cannonball Tree | Plant | 1 | Gardener |
| 49 | Pink Kapok Tree | Tree | 1 | Gardener |
| 50 | Eugenia Bojeri | Plant | 1 | Naturally |
| 51 | Terminalia Catappa | Plant | 4 | Gardener |
| 52 | Terminalia Catappa | Plant | U.I. | Gardener |



| | | | | |
|-----------|--|-------|------|-----------|
| 53 | Crinum Asiaticum | Plant | 1 | Naturally |
| 54 | Syzygium Aqueum | Plant | 1 | Naturally |
| 55 | Ficus Virens | Plant | 1 | Naturally |
| 56 | Terminalia Catappa | Plant | U.I. | Gardener |
| 57 | Murraya Paniculata | Plant | 1 | Naturally |
| 58 | Barringtonia | Plant | 1 | Naturally |
| 59 | Albizia Lebbeck | Plant | U.I. | Gardener |
| 60 | Common Ivy | Plant | 1 | Staff |
| 61 | Palm Tree | Tree | 2 | Gardener |
| 62 | Plum Tree | Tree | 1 | Gardener |
| 63 | Palm Tree | Tree | U.I. | Gardener |
| 64 | Indonesian Bay Leaf | Plant | 1 | Gardener |
| 65 | Dieffenbachia Seguine | Plant | 1 | Naturally |
| 66 | Prick Plant | Plant | 1 | Naturally |
| 67 | Ashok Plant | Tree | U.I. | Gardener |
| 68 | Dracaena Baby Doll | Plant | 1 | Gardener |
| 69 | Mangifera Indica | Plant | 3 | Staff |
| 70 | Caryota Mitis | Plant | 1 | Naturally |
| 71 | Mangifera Indica | Plant | U.I. | Staff |
| 72 | Mangifera Indica | Plant | U.I. | Staff |
| 73 | Terminalia Catappa | Plant | U.I. | Gardener |
| 74 | Shorea Robusta | Plant | 1 | Naturally |
| 75 | Magnolia Polyhypsophylla | Plant | 1 | Naturally |
| 76 | Cordyline Fruticosa | Plant | U.I. | Gardener |
| 77 | Cordyline Fruticosa | Plant | U.I. | Gardener |
| 78 | Ixora/West Indian Jasmine | Plant | 1 | Naturally |
| 79 | Dracaena | Plant | 1 | Naturally |
| 80 | Coconut Tree | Tree | 1 | Staff |
| 81 | Graptophyllum Pictum | Plant | 1 | Gardener |
| 82 | Pseuderanthemum | Plant | 1 | Naturally |
| 83 | Areca Concinna | Plant | 1 | Naturally |
| 84 | Tiger Orchid (Grammatophyllum Speciosum) | Plant | 1 | Gardener |



| | | | | |
|------------|--|------------|------|-----------|
| 85 | Dracaena Angustifolia | Plant | 1 | Naturally |
| 86 | Catharanthus Roseus | Plant | 1 | Naturally |
| 87 | Acalypha Indica | Plant | 1 | Naturally |
| 88 | Ficus Microcarpa | Plant | 1 | Naturally |
| 89 | Ashoka Tree | Plant | U.I. | Naturally |
| 90 | Euphorbia Lactea | Plant | 2 | Gardener |
| 91 | Erythrina Subumbrans | Plant | 1 | Naturally |
| 92 | Ocotea Odorifera | Plant | 1 | Naturally |
| 93 | Calophyllum Inophyllum | Plant | 1 | Naturally |
| 94 | Argyrodendron Peralatum | Tree | 1 | Gardener |
| 95 | Euphorbia Lactea | Plant | U.I. | Gardener |
| 96 | Senna Surattensis | Tree | 1 | Naturally |
| 97 | Buchanania | Plant | 1 | Naturally |
| 98 | Berchemia Scandens | Plant | 1 | Naturally |
| 99 | Acacia Catechu | Plant | 1 | Naturally |
| 100 | Libidibia Ferrea, Dubbeld-Saamgestelde Blaar, Pretoria | Tree | 2 | Gardener |
| 101 | Taxus Wallichiana Zucc. | Plant | 1 | Naturally |
| 102 | Capparis Zeylanica | Shrub | 1 | Staff |
| 103 | Pterospermum | Plant | 1 | Naturally |
| 104 | Libidibia Ferrea, Dubbeld-Saamgestelde Blaar, Pretoria | Tree | U.I. | Gardener |
| 105 | Pseuderanthemum Maculatum | Plant | 1 | Gardener |
| 106 | Ficus Platyphylla | Tree | 1 | Naturally |
| 107 | Vonenina | herb/shrub | 2 | Gardener |
| 108 | Mango Tree Branch At Starting Stage | Tree | 6 | Naturally |
| 109 | Prioria Pinnata | Plant | 1 | Gardener |
| 110 | Cocos Capitata | Plant | 1 | Naturally |
| 111 | Cordyline Fruticos | Plant | 11 | Gardener |
| 112 | Dracaena | Plant | 12 | Naturally |
| 113 | Jamun Tree | Tree | 2 | Naturally |
| 114 | Piper Mikanianum | Plant | 1 | Gardener |
| 115 | Pseuderanthemum Latifolium | Plant | 3 | Naturally |



| | | | | |
|------------|-----------------------------|-------|----|-----------|
| 116 | Dracaena Fragrans | Plant | 2 | Gardener |
| 117 | Askhok Tree | Tree | 11 | Gardener |
| 118 | Colomo | Plant | 1 | Gardener |
| 119 | Mambog Na Tinanom | Tree | 1 | Naturally |
| 120 | Archontophoenix Alexandrae | Plant | 3 | Gardener |
| 121 | Cleistocalyx Operculatus | Plant | 1 | Naturally |
| 122 | Polyscias Fruticosa | Plant | 3 | Naturally |
| 123 | Phytolacca Dioica | Tree | 1 | Naturally |
| 124 | Archontophoenix Alexandrae | Plant | 3 | Gardener |
| 125 | European Ash | Tree | 1 | Naturally |
| 126 | Archontophoenix Alexandrae | Plant | 3 | Gardener |
| 127 | Chinese Ixora | Shrub | 1 | Gardener |
| 128 | Pritchardia Remota | Plant | 2 | Gardener |
| 129 | Bigtooth Aspen | Plant | 1 | Naturally |
| 130 | Longevity Spinach | Plant | 2 | Gardener |
| 131 | Polyalthia Longifolia | Tree | 12 | Naturally |
| 132 | Graptophyllum Pictum | Plant | 4 | Gardener |
| 133 | Senna Auriculata | Tree | 1 | Naturally |
| 134 | Gymneme Sylvestre | Shrub | 1 | Gardener |
| 135 | Mangifera Indica | Tree | 19 | Naturally |
| 136 | Potato Foliage | Plant | 1 | Gardener |
| 137 | Adenantha Pavnina | Tree | 1 | Naturally |
| 138 | Arrowhead Plant | Plant | 6 | Gardener |
| 139 | Ravenea | Plant | 3 | Naturally |
| 140 | Longevity Spinach | Plant | 2 | Gardener |
| 141 | Polyalthia Longifolia | tree | 12 | Naturally |
| 142 | Ti/Cordyline Fruticosa | Plant | 11 | Naturally |
| 143 | Polyalthia Longifolia | tree | 12 | Naturally |
| 144 | 145 Epipremnum Pinnatum | Tree | 1 | Naturally |
| 145 | Polyalthia Longifolia | tree | 12 | Naturally |
| 146 | Rhopaloblaste Singaporensis | Tree | 1 | Naturally |
| 147 | Areca Palm | Plant | 4 | Gardener |
| 148 | Mangifera Indica | Tree | 18 | Naturally |



| | | | | |
|------------|--------------------------------|-------|----|-----------|
| 149 | Polyalthia Longifolia | Tree | 12 | Naturally |
| 150 | Nyctanthes Arbor-Tristis Plant | Plant | 1 | Gardener |
| 151 | Fukuqi Tree | tree | 1 | Naturally |
| 152 | Paper Plant | Plant | 1 | Gardener |
| 153 | Kopsia Plant | Plant | 1 | Naturally |
| 154 | Jackfruit Tree | tree | 1 | Naturally |
| 155 | Tilef Plant | Plant | 1 | Gardener |
| 156 | Crecentia Alata | tree | 1 | Naturally |
| 157 | Cinnamomum Malabattrum Tree | tree | 1 | Naturally |
| 158 | Indian Almond | tree | 3 | Naturally |
| 159 | Jungle Geranium | tree | 2 | Naturally |
| 160 | Indian Almond | tree | 3 | Naturally |
| 161 | Monoon Longifolium | Plant | 2 | Gardener |
| 162 | Solanum Nigrum | plant | 1 | Gardener |
| 163 | Tecoma Stans | Plant | 1 | Gardener |
| 164 | Ravenea | Tree | 3 | Naturally |
| 165 | Polyalthia Longifolia | Plant | 12 | Naturally |
| 166 | Aidia | Plant | 1 | Gardener |
| 167 | Jungle Geranium | Plant | 2 | Naturally |
| 168 | Ponderosa Lemon | Plant | 1 | Gardener |
| 169 | Amalaki | Plant | 1 | Gardener |
| 170 | Solanum Diphyllum | Plant | 2 | Naturally |
| 171 | Draceana | plant | 1 | Gardener |
| 172 | Shoe Black Plant | shrub | 4 | Gardener |
| 173 | Cordyline Fruticosa | Plant | 10 | Naturally |
| 174 | Codiaum Variegattem | Plant | 1 | Gardener |
| 175 | Voacanga Africana | Tree | 1 | Naturally |
| 176 | Cassuarina Equisetifolia | tree | 2 | Naturally |
| 177 | Graprophwllum Pictum | Plant | 1 | Gardener |
| 178 | Ravenea | plant | 3 | Naturally |
| 179 | Syzygium Aqueum | tree | 3 | Naturally |
| 180 | Mangifera Indica | tree | 18 | Naturally |
| 181 | Populaer Alba | tree | 1 | Naturally |



| | | | | |
|------------|--------------------------|-------|------|-----------|
| 182 | Cinnamomum Heyneanumnees | Plant | 1 | Gardener |
| 183 | Mangifera Indica | tree | 18 | Naturally |
| 184 | Black Night Shade | Plant | 1 | Gardener |
| 185 | Ceiba Pentandra | tree | 1 | Naturally |
| 186 | Mangifera Indica | Tree | 18 | Naturally |
| 187 | India Almond | Tree | 1 | Gardener |
| 188 | Flacourtia Jangomas | Tree | 1 | Naturally |
| 189 | Mangifera Indica | tree | 18 | Naturally |
| 190 | Bread Fruit | tree | 1 | Naturally |
| 191 | Ceibapentandra | tree | 1 | Naturally |
| 192 | Shoe Black Plant | Plant | 4 | Naturally |
| 193 | Polyalthia Longifolia | tree | 11 | Naturally |
| 194 | Ehretia Laevis | plant | 1 | Gardener |
| 195 | Syeda Batool | Plant | 1 | Naturally |
| 196 | Mitzuri | Plant | 1 | Naturally |
| 197 | Bogiboma | Plant | 1 | Gardener |
| 198 | Polyalthia Longifolia | Tree | 11 | Naturally |
| 199 | Cassuarina Equisetifolia | tree | 2 | Naturally |
| 200 | Swartzia Cubensis | Tree | 1 | Naturally |
| 201 | Coca | tree | U.I. | U.I. |
| 202 | Hibiscus Tree | Plant | 1 | Naturally |
| 203 | Syzygium Aqueum | Tree | 3 | Naturally |
| 204 | Polyalthia Longifolia | Tree | 11 | Naturally |
| 205 | Pterocarya | Tree | 1 | Naturally |
| 206 | Gynura Procumbens | PLant | 15 | Gardener |
| 207 | Polyalthia Longifolia | Tree | 11 | Naturally |
| 208 | Coprelylile Fruticosa | PLant | 1 | Gardener |
| 209 | Keitmango | Tree | 1 | Naturally |
| 210 | Chrysophyllum | Tree | 1 | Naturally |
| 211 | Pseuderanthemum | Shrub | 1 | Gardener |
| 212 | Theos Charis | Plant | 1 | Gardener |
| 213 | Cadamba | Tree | 1 | Naturally |
| 214 | Yadra Areca Palm | Plant | 1 | Gardener |



| | | | | |
|------------|---|-------|---|-----------|
| 215 | Ficus Hispida | Tree | 1 | Naturally |
| 216 | Angiosperms | Plant | 1 | Staff |
| 217 | Excoecaria | Shrub | 1 | Gardener |
| 218 | Ti Plant | Shrub | 1 | Staff |
| 219 | The Golar Tree | Tree | 1 | Naturally |
| 220 | Ti Plant | Shrub | 1 | Staff |
| 221 | Kottukonam Mango Grafted Live Plant Dwarf Variety | Plant | 1 | Gardener |
| 222 | Pseuderanthemum | Shrub | 1 | Staff |
| 223 | Mangifera Indica | Plant | 1 | Gardener |
| 224 | Senna Surattensis | Shrub | 1 | Staff |
| 225 | Catharanthus Raseus | herb | 1 | Gardener |
| 226 | Solanum Nudum Humb | Plant | 1 | Gardener |
| 227 | Mangifera Indica | Plant | 1 | Gardener |
| 228 | Chias Orchid | Plant | 1 | Gardener |
| 229 | Flame Vine | Plant | 1 | Gardener |
| 230 | Ambal | herb | 1 | Gardener |
| 231 | Euclea | Tree | 1 | Naturally |
| 232 | Pterospermum Acerifolicen | herb | 1 | Gardener |
| 233 | Therapeutic Tree | Plant | 1 | Staff |
| 234 | Piper Dilateum | Shrub | 1 | Gardener |
| 235 | Pandanus Tectorium | Plant | 1 | Gardener |
| 236 | Kanan Pendari | Plant | 1 | Gardener |
| 237 | Mangifera Indica | Plant | 1 | Gardener |
| 238 | Morus Rubra | Tree | 1 | Naturally |
| 239 | Arrowhead Plant | Plant | 1 | Gardener |
| 240 | Arrowhead Plant | Plant | 1 | Gardener |
| 241 | The Golar Tree | Plant | 1 | Gardener |
| 242 | Ti Plant | Shrub | 1 | Gardener |
| 243 | Sterculia Fotida | Tree | 1 | Naturally |
| 244 | Caryota Cilly | Herb | 1 | Gardener |
| 245 | Beach Spider | Plant | 1 | Staff |
| 246 | Mahogany | Tree | 1 | Naturally |



| | | | | |
|------------|-----------------------------|-------|---|-----------|
| 247 | Panagal Trees | Tree | 1 | Naturally |
| 248 | Arrowhead Plant | Plant | 1 | Gardener |
| 249 | Kacanjparazg | Tree | 1 | Naturally |
| 250 | Solanum Schumannianum | Shrub | 1 | Staff |
| 251 | Japanese Laurel Aucuba | Shrub | 1 | Staff |
| 252 | Dracaena American | Plant | 1 | Gardener |
| 253 | Minatigreehouse Mango Plant | Tree | 1 | Naturally |
| 254 | Pinanga Bicolana | Shrub | 1 | Gardener |
| 255 | Pinanga Coronata | Shrub | 1 | Gardener |
| 256 | Tabebuia | Shrub | 1 | Gardener |
| 257 | Lysimachia Mitnisnt Sun | Herb | 1 | Gardener |
| 258 | Solanum Diphyllum | Shrub | 1 | Gardener |
| 259 | Eurphorbia Tithymaloites | Shrub | 1 | Staff |
| 260 | Strelius Asper Evergreen | Tree | 1 | Naturally |
| 261 | Wild Tree | Tree | 1 | Naturally |
| 262 | Peregrina | Plant | 1 | Gardener |
| 263 | Holy Basil | Shrub | 1 | Staff |
| 264 | Hamelia | Herb | 1 | Gardener |
| 265 | Couva | Tree | 1 | Naturally |
| 266 | Rose Plant | Shrub | 1 | Staff |
| 267 | Arabian Jasmin | Herb | 1 | Staff |
| 268 | Lepidocaryom Tree | Plant | 1 | Gardener |
| 269 | Papay | Tree | 1 | Naturally |
| 270 | Green View Zardalu | Tree | 1 | Naturally |
| 271 | Ficus Religiosa | Tree | 1 | Naturally |
| 272 | Indian Almond | Tree | 1 | Naturally |
| 273 | Fenugreek | Herb | 1 | Staff |
| 274 | Chilli | Shrub | 1 | Staff |
| 275 | Curry Leave Tree | Shrub | 1 | Staff |
| 276 | Euphorbia Geroldii | Shrub | 1 | Gardener |
| 277 | Mangifera Indica | Plant | 1 | Gardener |
| 278 | Pseuderanthemum | Shrub | 1 | Gardener |
| 279 | Fire Thorn | Shrub | 1 | Gardener |



| | | | | |
|------------|-------------------------|-------|---|-----------|
| 280 | Terminaliacatappapictum | Tree | 1 | Naturally |
| 281 | Graptophyllumu | Shrub | 1 | Gardener |
| 282 | Ficus Altissima | Tree | 1 | Naturally |
| 283 | Emily Collins | Plant | 1 | Gardener |
| 284 | Akebia Quinata | Shrub | 1 | Staff |
| 285 | Ti Plant | Shrub | 1 | Staff |
| 286 | Ficus Microcarpa | Tree | 1 | Naturally |
| 287 | Eucalyptus Species | Tree | 1 | Naturally |
| 288 | Sauropus Fruticosa | Shrub | 1 | staff |
| 289 | Polyscias Fruticosa | Shrub | 1 | Gardener |
| 290 | Sauropus Androgynus | Shrub | 1 | staff |
| 291 | Malavar Nut | Shrub | 1 | Gardener |
| 292 | Polyscias Fruticosa | Shrub | 1 | Gardener |
| 293 | Sauropus Fruticosa | Shrub | 1 | staff |
| 294 | Sauropus Fruticosa | Shrub | 1 | staff |
| 295 | Justicia Gondaerussa | Shrub | 1 | staff |
| 296 | Lemon Beebrush | Shrub | 1 | staff |
| 297 | Psychotria Viridis | Shrub | 1 | Gardener |
| 298 | Pseuderanthernum | Shrub | 1 | Gardener |
| 299 | Pseuderanthernum | Shrub | 1 | Gardener |
| 300 | Kalpueng | Shrub | 1 | Gardener |
| 301 | Kalpueng | Shrub | 1 | Gardener |
| 302 | Kalpueng | Shrub | 1 | Gardener |
| 303 | Kalpueng | Shrub | 1 | Gardener |
| 304 | Cirinum Asiaticum | Herb | 1 | staff |
| 305 | Cirinum Asiaticum | Herb | 1 | staff |
| 306 | Toona Ciliata | Tree | 1 | Naturally |
| 307 | Magnolia Champaca | Tree | 1 | Naturally |
| 308 | Justicia | Shrub | 1 | Gardener |
| 309 | Gynura Procumbens | Shrub | 1 | Gardener |
| 310 | Pollination | Plant | 1 | Staff |
| 311 | Gynura Procumbens | Shrub | 1 | Gardener |
| 312 | Gynura Procumbens | Shrub | 1 | Gardener |



| | | | | |
|------------|-------------------------|--------------|------|-----------|
| 313 | Gynura Procumbens | Shrub | 1 | Gardener |
| 314 | Gynura Procumbens | Herb | 15 | Gardener |
| 315 | Gynura Procumbens | Herb | 15 | Gardener |
| 316 | Gynura Procumbens | Herb | 15 | Gardener |
| 317 | Holy Basil | Herb | 3 | Gardener |
| 318 | Ocimum Tenuiflorum | Herb | 3 | Gardener |
| 319 | Justicia Brandegeana | Shrub | 3 | Gardener |
| 320 | Gynura Procumbens | Herb | 15 | Gardener |
| 321 | Gynura Procumbens | Herb | 15 | Gardener |
| 322 | Ocimum Tenuiflorum | Shrub | 3 | Gardener |
| 323 | Gynura Procumbens | Herb | 15 | Gardener |
| 324 | Gynura Procumbens | Herb | 15 | Gardener |
| 325 | Gynura Procumbens | Herb | 15 | Staff |
| 326 | Ocimum Tenuiflorum | Herb | 3 | Gardener |
| 327 | Gynura Procumbens | Herb | 15 | Gardener |
| 328 | Catharanthus Roseus | Shrub | 7 | Staff |
| 329 | Peacock Flower | Shrub | 1 | Gardener |
| 330 | Gynura Procumbens | Herb | 15 | Gardener |
| 331 | Catharanthus Roseus | Shrub | 7 | Gardener |
| 332 | Pacific Poison Oak | Shrub | 1 | Gardener |
| 333 | Hibiscus Rose | PLant | U.I. | U.I. |
| 334 | Aquilaria | Tree | 1 | Naturally |
| 335 | Euphorbia Tithymalodies | Shrub | 5 | Staff |
| 336 | Leaf Almond Tree | Tree | 1 | Naturally |
| 337 | Catharanthus Roseus | Shrub | 7 | Gardener |
| 338 | Arabian Jasmine | Shrub | 1 | Staff |
| 339 | Vernonica Amygdalina | Shrub | 3 | Staff |
| 340 | Vernonica Amygdalina | Shrub | 3 | Staff |
| 341 | Catharanthus Roseus | Shrub | 7 | Gardener |
| 342 | Shoebblack Plant | Shrub | 3 | Gardener |
| 343 | Vernonica Amygdalina | Shrub | 3 | Gardener |
| 344 | Perivincal | Shrub / Herb | 1 | Gardener |
| 345 | Chiuri Plant | Tree | 1 | Naturally |



| | | | | |
|------------|----------------------------|------------------|----|-----------|
| 346 | Aspidistra Elatior | Plant | 1 | Gardener |
| 347 | Arrowhead Plant | Plant | 6 | Gardener |
| 348 | Catharanthus Roseus | Shrub | 7 | Gardener |
| 349 | Morus Alba | Tree | 1 | Gardener |
| 350 | Peregrina | Shrub | 2 | Gardener |
| 351 | Holybasil | Herb | 1 | Gardener |
| 352 | Pinwheel Flour | Shrub | 1 | Staff |
| 353 | Justicia Plant | Shrub | 1 | Gardener |
| 354 | Pachсандра Axillaris | Plant | 1 | Staff |
| 355 | Graptophyllum | Shrub | 6 | Gardener |
| 356 | Holy Basil | Herb | 3 | Gardener |
| 357 | Premna Serratifolia | Shrub/Small Tree | 1 | Gardener |
| 358 | Chloranthus Erectus | Shrub | 1 | Gardener |
| 359 | Shoeblack Plant | Shrub | 3 | Gardener |
| 360 | Catharanthus Roseus | Shrub | 7 | Staff |
| 361 | Euphorbia Tithymalodies | Shrub | 5 | Gardener |
| 362 | Peregrina | Shrub | 2 | Gardener |
| 363 | Longevity Spinach | Plant | 4 | Gardener |
| 364 | Mango Tree | Tree | 2 | Gardener |
| 365 | Shoeblack Plant | Shrub | 3 | Gardener |
| 366 | Justicia | Shrub | 10 | Staff |
| 367 | Justica | Shrub | 1 | Gardener |
| 368 | Fokein Tea Tree | Shrub | 2 | Gardener |
| 369 | Justicia | Shrub | 10 | Gardener |
| 370 | Fokein Tea Tree | Shrub | 2 | Gardener |
| 371 | Justicia | Shrub | 10 | Staff |
| 372 | Pseuderanthemum Latifolium | Plant | 3 | Gardener |
| 373 | Pseuderanthemum Latifolium | Plant | 3 | Gardener |
| 374 | Caapi | Shrub | 1 | Gardener |
| 375 | Dracaena Fragrans | Plant | 2 | Gardener |
| 376 | Cirinum Asiaticum | Herb | 4 | Staff |
| 377 | Graptophyllum Pictum | Shrub | 4 | Naturally |



| | | | | |
|------------|----------------------------------|------------------|------|-----------|
| 378 | Cirinum Asiaticum | Herb | 4 | Gardener |
| 379 | Euphorbia Tithymalodies | Shrub | 5 | Gardener |
| 380 | Euphorbia Tithymalodies | Shrub | 5 | Gardener |
| 381 | Euphorbia Tithymalodies | Shrub | 5 | Gardener |
| 382 | Grey Ghost Castus | Plant | 1 | Naturally |
| 383 | Albizia Acle | Plant | 1 | Naturally |
| 384 | Justicia Brandegeean | Shrub | 3 | Gardener |
| 385 | Justicia Brandegeean | Shrub | 3 | Gardener |
| 386 | Shoe Black Plant | Shrub | 2 | Gardener |
| 387 | Pyrostegia Venusta | Shrub | 1 | Gardener |
| 388 | Organic Salvia Oxyphora | Herb/Shrub | 1 | Gardener |
| 389 | Trichostigma Octandrum | Shrub | 1 | Gardener |
| 390 | Ti Plant | Shrub | 1 | Gardener |
| 391 | Longevity Spinach | Plant | 4 | Naturally |
| 392 | Shoe Black Plant | Shrub | 2 | Gardener |
| 393 | Cordyline Fruticosa | Shrub | 10 | Naturally |
| 394 | Justicia Gendarussa | Shrub | 1 | Gardener |
| 395 | Red Sandalwood Tree | Tree | 1 | Naturally |
| 396 | Bay Laurel | Tree/Shrub | 1 | Naturally |
| 397 | Chamaecostus Cuspidatus | Herb | 1 | Staff |
| 398 | Avacado Tree | Tree | U.I. | U.I. |
| 399 | Cordyline Fruticosa (L.) A.Chev. | Shrub | 1 | Naturally |
| 400 | Madagascar Periwinkle | Shrub/Herb | 1 | Gardener |
| 401 | Aloe Vera | Shrub | 1 | Gardener |
| 402 | Giant Ferns Of Bulusan | Herb | 1 | Staff |
| 403 | Terminalia Catappa | Tree | 2 | Naturally |
| 404 | Senna Surattensis | Shrub/small tree | 3 | Staff |
| 405 | Terminalia Bellirica | Tree | 7 | Naturally |
| 406 | Terminalia Bellirica | Tree | 7 | Naturally |
| 407 | Curry Leave Tree | tree | U.I. | U.I. |
| 408 | Mimusops Elengi | Tree | 1 | Naturally |
| 409 | Cyclantheropsis Parviflora | Herb | 1 | Gardener |



| | | | | |
|------------|--------------------------------|----------------------------|------|-----------|
| 410 | Terminalia Catappa | Tree | 2 | Naturally |
| 411 | Cocos Nucifera | Tree | 18 | Naturally |
| 412 | Alangium Salviifolium | Shrub | 2 | Gardener |
| 413 | Alangium Salviifolium | Shrub | 2 | Gardener |
| 414 | Saraca Asoca | Tree | 6 | Naturally |
| 415 | Teak Tree | Tree | 1 | Naturally |
| 416 | Cocos Nucifera | Tree | U.I. | Naturally |
| 417 | Terminalia Bellirica | Tree | 7 | Naturally |
| 418 | Strychnos Pungens | Tree | U.I. | U.I. |
| 419 | Cocos Nucifera | Tree | U.I. | Staff |
| 420 | Neolamarckia Cadamba | Unidentified. Not known | U.I. | Naturally |
| 421 | Cocos Nucifera | Tree | U.I. | Staff |
| 422 | Cocos Nucifera | Tree | U.I. | Staff |
| 423 | Cocos Nucifera | Tree | U.I. | Staff |
| 424 | Oenocarpus Bacaba | Unidentified. Not known | U.I. | Naturally |
| 425 | Cocos Nucifera | Tree | U.I. | Staff |
| 426 | Bauhinia Picta | Plant | 1 | Naturally |
| 427 | Anthraxnose | Plant | 1 | Naturally |
| 428 | Mangifera Indica | Tree | 1 | Naturally |
| 429 | Calliandra Antioquiae | Plant | 1 | Naturally |
| 430 | Castilla Elastica | Plant | 1 | Naturally |
| 431 | Albizia Subdimidiata (Splitg.) | Tree | 1 | Naturally |
| 432 | Konkani | Tree | 1 | Naturally |
| 433 | Caryota Mitis | Plant | 1 | Naturally |
| 434 | Carica Papaya | Tree | 5 | Staff |
| 435 | Ficus Religiosa | Tree | 1 | Naturally |
| 436 | Cocos Nucifera | Tree | U.I. | Gardener |
| 437 | Carica Papaya | Tree | 1 | Staff |
| 438 | Cocos Nucifera | Tree | U.I. | Staff |
| 439 | Carica Papaya | Tree | 1 | Gardener |
| 440 | Terminalia Bellirica | Tree | 1 | Naturally |



| | | | | |
|-----|----------------------------|-------|------|-----------|
| 441 | Saraca Asoca | Tree | U.I. | Naturally |
| 442 | Cocos Nucifera | Tree | U.I. | Naturally |
| 443 | Cocos Nucifera | Tree | U.I. | Naturally |
| 444 | Mangifera Indica | Tree | 1 | Naturally |
| 445 | Carica Papaya | Tree | 1 | Staff |
| 446 | Searsia Pyroides, | Tree | 1 | Naturally |
| 447 | Coconut Tree | Tree | U.I. | Gardener |
| 448 | Giant Calotrope | Plant | 1 | Naturally |
| 449 | Cocos Nucifera | Tree | U.I. | Gardener |
| 450 | Terminalia Bellirica | Plant | 1 | Naturally |
| 451 | Carica Papaya | Tree | 1 | Staff |
| 452 | Cocos Nucifera | Tree | U.I. | Staff |
| 453 | Cocos Nucifera | Tree | U.I. | Staff |
| 454 | Saraca Asoca | Tree | U.I. | Naturally |
| 455 | Cocos Nucifera | Tree | U.I. | Staff |
| 456 | Mangifera Indica | Tree | 1 | Naturally |
| 457 | Cocos Nucifera | Tree | U.I. | Staff |
| 458 | Saraca Asoca | Tree | U.I. | Naturally |
| 459 | Mangifera Indica | Tree | 1 | Naturally |
| 460 | Nakuda Tree | Tree | 1 | Gardener |
| 461 | Saraca Asoca | Tree | U.I. | Naturally |
| 462 | Quercus Arizonica | Tree | 1 | Naturally |
| 463 | Arrowhead Plant | Plant | 1 | Naturally |
| 464 | Mangifera Indica | Tree | 1 | Naturally |
| 465 | Cape Jasmine | Plant | 1 | Naturally |
| 466 | Quercus Arizonica | Tree | 1 | Naturally |
| 467 | Litsea Monopetala | Plant | 1 | Naturally |
| 468 | Dracaena Angustifolia Care | Tree | 1 | Naturally |
| 469 | Caryota Mitis | Plant | 1 | Naturally |
| 470 | Terminalia Bellirica | Plant | 1 | Naturally |
| 471 | Jamun Tree | Tree | U.I. | Naturally |
| 472 | Terminalia Bellirica | Plant | 1 | Naturally |
| 473 | Putranjiva | Plant | 1 | Naturally |



| | | | | |
|------------|---------------------------|-------|------|-----------|
| 474 | Plathymenia | Tree | 1 | Naturally |
| 475 | Tilia | Tree | U.I. | U.I. |
| 476 | Ancistrocladus Heyneanus | Tree | 1 | Naturally |
| 477 | Veitchia | Plant | 1 | Naturally |
| 478 | Pedilanthus Tithymaloides | Plant | 1 | Naturally |
| 479 | Sageraea Laurina | Plant | 1 | Naturally |
| 480 | Polyalthia Longifolia | Tree | 1 | Naturally |
| 481 | Swietenia Mahagoni | Tree | 1 | Naturally |
| 482 | Caryota Urens | Plant | 1 | Gardener |
| 483 | Polyscias Cissodendron | Tree | 1 | Naturally |
| 484 | Kigelia Africana Susp. | TTree | U.I. | U.I. |
| 485 | Caryota Urens | Plant | 1 | Naturally |
| 486 | Jatropha | Plant | 1 | Naturally |
| 487 | Selenicereus Setaceus | Plant | 1 | Naturally |
| 488 | Afrocarpus Mannii | Tree | 1 | Naturally |
| 489 | Caryota Urens | Plant | 1 | Naturally |
| 490 | Terminalia Catappa | Tree | 1 | Naturally |
| 491 | Calophyllum Inophyllum L. | Tree | 1 | Naturally |
| 492 | Calophyllum Inophyllum L. | Tree | 1 | Naturally |
| 493 | Ficus Benghalensis | Tree | 1 | Naturally |
| 494 | Magnifera Indica | tree | U.I. | U.I. |
| 495 | Mango | Tree | 1 | Naturally |
| 496 | Caryota Mitis Lour | Tree | 1 | Naturally |
| 497 | Bursera Simaruba | tree | U.I. | U.I. |
| 498 | Devil's Ivy | Plant | 1 | Naturally |
| 499 | Caryota Mitis Lour | Plant | 1 | Naturally |
| 500 | Caryota Mitis Lour | Plant | 1 | Naturally |
| 501 | Caryota Mitis Lour | Plant | 1 | Naturally |
| 502 | Cocos Nucifera | Tree | U.I. | Staff |
| 503 | Cocos Nucifera | Tree | U.I. | Staff |
| 504 | Caryota Mitis Lour | Plant | 1 | Naturally |
| 505 | Ficus Religiosa | Tree | 1 | Naturally |
| 506 | Ficus Religiosa | Tree | 1 | Naturally |



| | | | | |
|------------|--------------------------------|-------|------|-----------|
| 507 | Rauvolfia Caffra | Tree | 1 | Naturally |
| 508 | Cocos Nucifera | Tree | U.I. | Gardener |
| 509 | Bamboos | Tree | 1 | Naturally |
| 510 | Neem | Tree | 1 | Naturally |
| 511 | Cyrtomium Falcatum | Plant | 1 | Gardener |
| 512 | Dracaena Sanderiana | Plant | 1 | Student |
| 513 | Catharanthus | Plant | 1 | Student |
| 514 | Potted White Ginger Lily Camis | Plant | 1 | Gardener |
| 515 | Euphorbia Tithymaloides | Plant | 1 | Staff |
| 516 | Areca Palm | Tree | 1 | Naturally |
| 517 | Dracaena Braunii: Ribbon Plant | Plant | 1 | Naturally |
| 518 | Dracaena Marginata | Plant | 1 | Naturally |
| 519 | Epipremnum Aureum | Plant | 1 | Naturally |
| 520 | Euphorbia Tithymaloides | Plant | 1 | Naturally |

Table 3: Details of the Flora in the premises

At present there are more than 1,150 plantations in the premises.

5.3 Noise Audit

On a macro level the Institute is surrounded by residential and educational areas; however given close proximity to public modes of transport the noise levels are comparatively higher.

5.4 Carbon Footprint Audit - Heat Island Reduction

The heat island effect refers to the study of micro climatic feature within a site. There are multiple factors that add on to the feature such as external temperature, internal temperatures, site context including available and site adjacent facilities.

The site is located in an urban area with a lot of concretized spaces and congestion all over the suburb, to a certain extent the heat island effect is experienced. However, it cannot be overlooked that the site also has open spaces and plantation cover within the site.



5.5 Fire Safety

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

The available provisions include fire extinguishers, however their refilling date has passed and there is an urgent need to undertake fire and life safety measures including fabrication of open wiring, additional sand bucket in area with heavy electrical loads.

DETAILED REPORT



6. Inferences

6.1 Section-wise suggestions

The following suggestions can be implemented **in next 2.5 years** from the date of the Report submission.

6.1.1 Site beautification

Garden development - The landscape redesign and ecological redesign – This should be done to increase the shade cover in the entire premises.

6.1.2 Heat island reduction

- ➔ **Cool rooftops** - The Terrace rooftops should be painted with Cooltop – reflective materials to reflect the harsh sun rays and reduce the heat absorption in the top most floor and surrounding areas of the building.

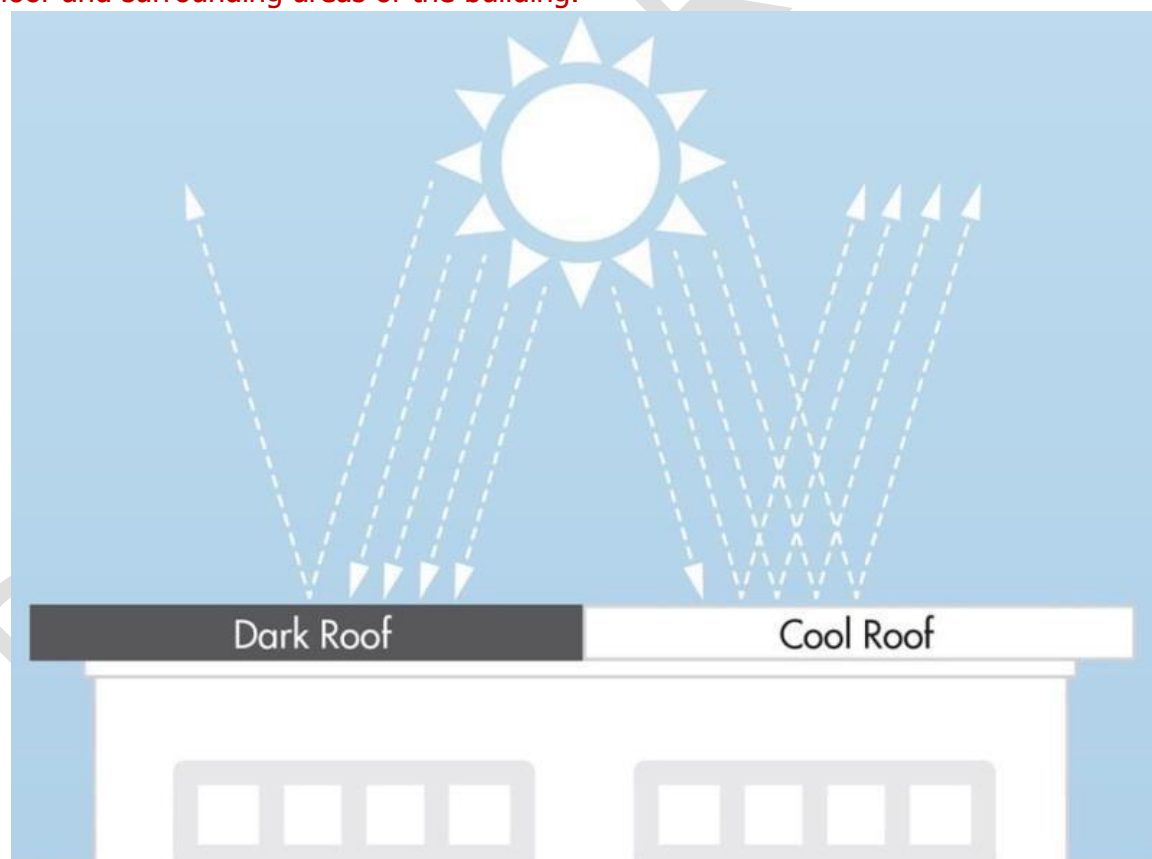


Plate 4: Cool roof comparative analysis (For reference purpose only)

Source: Image by <https://www.gaf.com/en-us/blog/six-truths-about-cool-roofs-281474980105387>

6.1.3 Life safety

- **Mandate fire extinguisher in spaces** - One fire extinguisher should mandatorily be there in every space which has an air conditioner/ gas cylinder.
- **Combustible equipment** - Every space which has a gas cylinder or combustible equipment should have a provision for the barricade around the gas cylinders, appropriate safety board's mentioning 'danger sign' and 'Do not touch' with an additional small fire extinguisher close by.
- The **fire and life safety signages (Including exit signages)** should be increased and displayed.
- There should be a **PASS Board** alongside every fire extinguisher and a **RACE Board** at the location of extreme populace/ footfalls.



Reference suggestions 1: PASS Board display

6.1.4 Pollution Control

- ➔ **Promote the use of Eco-friendly vehicles** - There can be student and staff sensitization program on eco-friendly and battery-operated vehicles/ low emission vehicles for daily use.

- ➔ **Battery charging points for Eco-friendly vehicles** - There can be provision for battery charge points, this would inspire students to change their mode of transportation and adopt sustainable practices.

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

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7. Compilation

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

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

DETAILED REPORT





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