

GV/GA/03-24/ 276

Green 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 Efficient Management of Premise.

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


Ar. Nahida Abdulla Shaikh

"Elite 100 Green Architects of India" Econaur, 2022

Certified G.B.P. (Registration. No. 22/718)

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GREEN 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
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Background reference image Sasin Tipchai on unsplash

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

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



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Acknowledgement

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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.

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- Admin staff member – **Mrs. Shraddha Pednekar**

Sustainable Academe

Brand of Greenvio Solutions, Palghar District, Maharashtra- 401208

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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

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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

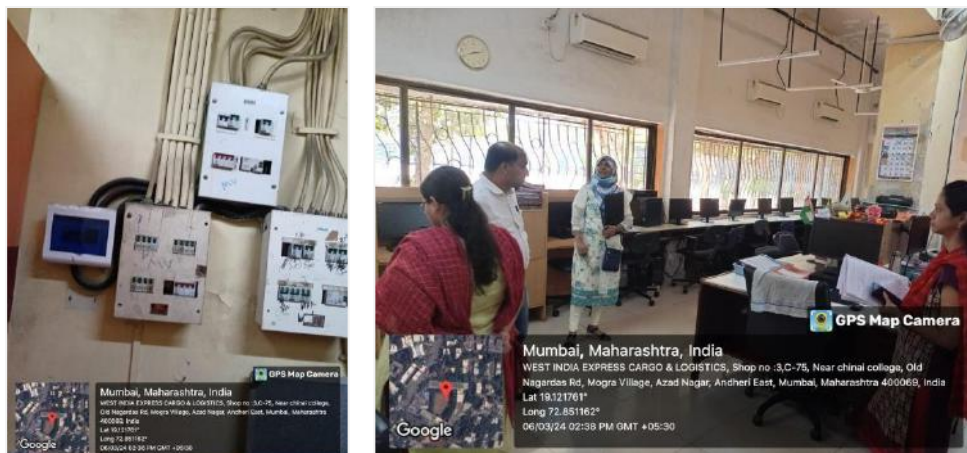


Plate 1: Assessment of the energy and electrical areas

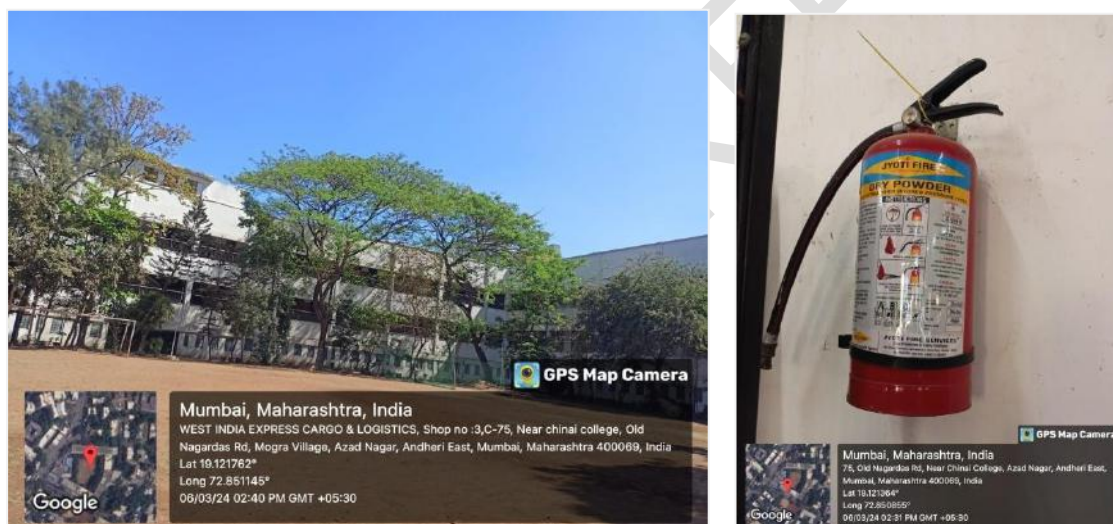


Plate 2: Open space with plantations and Fire and life safety measure through extinguishers in premises



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

5. Documentation

5.1 Green Practices Audit

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

5.1.1 Green practices

We observed the following points during the investigation data verification of the premises.

- ⇒ **Team work** – The best quality of the Institute is its coordinating and cooperative staff members, as for a building the foundation plays the most important role for its future similarly for an educational institute its staff members do.

5.1.2 Community development

There are no **extension initiatives** undertaken by the Institute towards environment and social upliftment specifically through NSS/ NCC/ UBA etc.

The details of the **environmental activities** conducted as part of the extension initiatives by the Institute documented below:

| S. No. | Initiative | Type | Date |
|---|-----------------|----------|------------|
| Academic year 2023-2024 (June 2023 to February 2024) | | | |
| 1 | Tree Plantation | Physical | 19/08/2023 |
| Academic year 2022-2023 (June 2022 to May 2023) | | | |
| 1 | Tree Plantation | Physical | 07-04-2022 |

Table 3: Details of the environmental initiatives undertaken by Institute

The study suggests to increase the initiatives and its documentation.

5.2 Waste Audit

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

5.2.1 Waste produced

| S. No. | Type | Current practice | Proposed practice |
|--------|-------------------------------------|----------------------------|--|
| 1 | Solid waste (Toilets) | Let into storm water drain | Introduce a biogas plant that if functional and utilised |
| 2 | Organic waste (Regular) | Not managed | Introduce a compost pit |
| 3 | Liquid waste (Toilets, wash basins) | Let into storm water drain | Introduce a sewage treatment plant within the premises |
| 4 | Chemical waste from laboratories | N.A. | |
| 5 | Toxic waste from laboratories | | |
| 6 | E-waste | No information provided | Tie-up with Ecoreco, Thereco |
| 7 | Plastic waste | No information provided | Tie-up with Bisleri's Bottles for change, undertake eco-walls project and other practices |
| 8 | Bio-waste (Sanitary) | Not managed | Introduce sanitary vending and incinerator machines along with sani bins in all female washrooms and common rooms |
| 9 | Construction waste and reuse | Not applicable | Not applicable |

Table 4: Waste management system by the Institute

Currently, there are sixteen dustbins inside the premises and two outside.

5.3 Water Audit

Water is one of the basic needs. Pure drinking water is a resource that needs to be preserved efficiently. A water audit helps to identify the sources of water consumption, and the water requirement by the premises is met by these sources.

The effective usage of water without any wastage should be a mandatory practice. Understanding the techniques as per site context to increase water conservation in terms of awareness and practice can be identified and executed as part of this exercise.

5.3.1 Water availability and consumption

5.3.1.1 Source of Primary water supply

The Institute requires water from the Local Municipality for drinking water purposes. The documentation below related to water tanks in the premises.

| S. No | Type | Capacity | Numbers |
|-------|------------------------|----------|---------|
| 1 | Underground water tank | 20,000 | 1 |
| 2 | Overhead water tank | 9,000 | 4 |

Table 5: Water tanks in the premises

The study suggests that the space requires of tanks can be documented with mention of size, capacity usage, Institute name, colour coding and last maintenance date mentioned on each facility.

5.3.1.2 Source of Secondary water supply

The Institute uses the following sources of water supply for secondary usages such as watering plants, kitchen, toilets, and wash basins and other spaces. There is one bore well.

5.3.1.3 Source of Tertiary water supply

The tertiary source of water is the source of water harvesting.

We suggest adopting practice of rain water bunds around the block and connecting the overflow pipes of the rain water harvesting pits/ syntax tank with 10,000 – 50,000 litres capacity; however, as the building is located in a shared campus within the suburban locality of urban Mumbai there are certain restrictions of Management and Government approval to undertake both of these recommendations.

5.3.1.4 Source of Reusing waste water

This initiative is not practiced.

The study suggests that keeping the site context and constraints in mind the waste water treatment plant can be explored.

5.3.2 Areas of water usage

Based on the inventory done and data shared by the staff we found that the premise has the facilities such as:

- ➔ General toilets for male, female
- ➔ Taps for gardens and toilet facilities
- ➔ Drinking water cooler

The study suggests that daily documentation of water supply should be undertaken.

5.4 Health and Hygiene Audit

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

Overall, the premise requires major up gradation in terms of cleanliness and hygiene, steps have to be undertaken on an immediate basis.

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 Green practices audit

- **Environmental awareness** - There can be various slogans in local and national language on the compound wall giving the message of saving the environment through the joint efforts of the students and staff thereby making the student socially and environmentally responsible citizens.
- **Increase the green awareness practice** – This should be in terms of the physical and virtual events which will be beneficial for all stakeholders in the shared premises. (Basically the frequency of the lectures should be increased)

6.1.2 Waste Audit

- **Multi-colored waste management bins** - There should be more number of dual litter dustbins at various locations in areas such as Canteen, and open spaces. This would inculcate the awareness of waste segregation among students. Whereas a single type of dry waste dustbin should be available inside the teaching areas.



Reference suggestions 1: Twin litter dustbins in the premises

- ⇒ **Signages** - Messages about avoiding wastage should be placed at appropriate locations.
- ⇒ Tie up with **Bisleri International** regarding their '**Bottles for change program**' alsowith '**Thereco**' for their waste management.
- ⇒ Invite companies such as '**Thaely**' and '**Recharkha**' to undertake skill development workshops.

6.1.3 Water Audit

Manual about the functioning of the system – There should be manual such as followsto increase sensitization about the facility and its operations.

Roof Rain water Harvesting System

For irrigating the plantation in campus

Rainwater harvesting is a technique used for collecting, storing, and using rainwater for landscape irrigation and other uses. The rainwater is collected from various hard surfaces such as rooftops and/or other manmade aboveground hard surfaces. We have much potential of roof rain water harvesting from which we can collect this water and store it for different purposes.

In first phase we have collected the roof water 3000 sqft.

On that basis we can estimate the annual water collection which as follows

| Roof Type | Co-efficient |
|-----------|--------------|
| Slab | 0.8 to 0.9 |

Satara City annual rainfall in mm = 1200-1500, Consider rainfall -1300 mm. **Rainfall in meter =1.3**

Rainwater Harvesting Potential (In Cum) = Area (in Sq,Meter) X Annual Rainfall (m)X Co-efficient X Constant Co. eff (0.80)


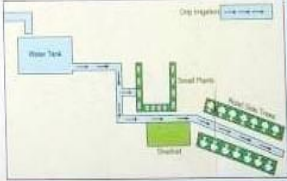
Rainwater Harvesting (3000 Sq.ft) =Area in Meter X Annual Rainfall (m) X Co-efficient X Constant Co. eff

| | | | |
|----------|-----|-----|------|
| 278.7091 | 1.3 | 0.8 | 0.80 |
|----------|-----|-----|------|

Rainwater Harvesting (3000 Sq.ft) = 278.7091X 1.3 X 0.8 X 0.80

= 231.8859712 Cum
= 231885.9712

We are using this water for irrigation plantations in campus by using drip irrigation system

Reference suggestions 2: Roof rain water harvesting system

6.1.4 Health and Hygiene Audit

- ⇒ **Sanitary vending and incinerator** - There should be provision for sanitary vending, incinerator machine and incinerator in every ladies common room, and toilet on the premises.
- ⇒ **Compound wall** – The compound wall should have awareness messages about 'No Smoking' and 'No Tobacco'
- ⇒ **Toilet hygiene** – There should be facilities such as potpourri, camphor tablets in the toilet to avoid smell and health related issues.

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.

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Kamble

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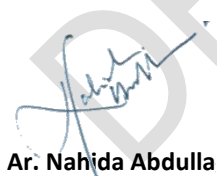
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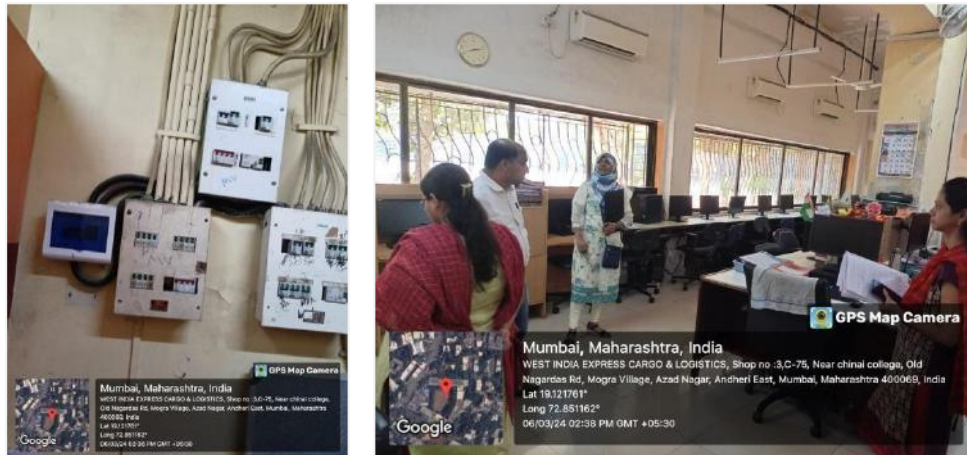


Plate 1: Assessment of the energy and electrical areas



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 |

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|-----------|--|-------|------|-----------|
| 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 Polyhyphylla | 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 |

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

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

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|------------|--------------------------------|-------|----|-----------|
| 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 Malabatum 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 |

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|------------|--------------------------|-------|------|-----------|
| 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 | Pseuderantheumum | Shrub | 1 | Gardener |
| 212 | Theos Charis | Plant | 1 | Gardener |
| 213 | Cadamba | Tree | 1 | Naturally |
| 214 | Yadra Areca Palm | Plant | 1 | Gardener |

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

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

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

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

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|------------|----------------------------|------------------|----|-----------|
| 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 | Pachsandra 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 | Shoebblack 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 | Shoebblack 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 |

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|------------|----------------------------------|------------------|------|-----------|
| 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 Brandegeeana | Shrub | 3 | Gardener |
| 385 | Justicia Brandegeeana | 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 |

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

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|------------|----------------------------|-------|------|-----------|
| 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. | TRee | 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.

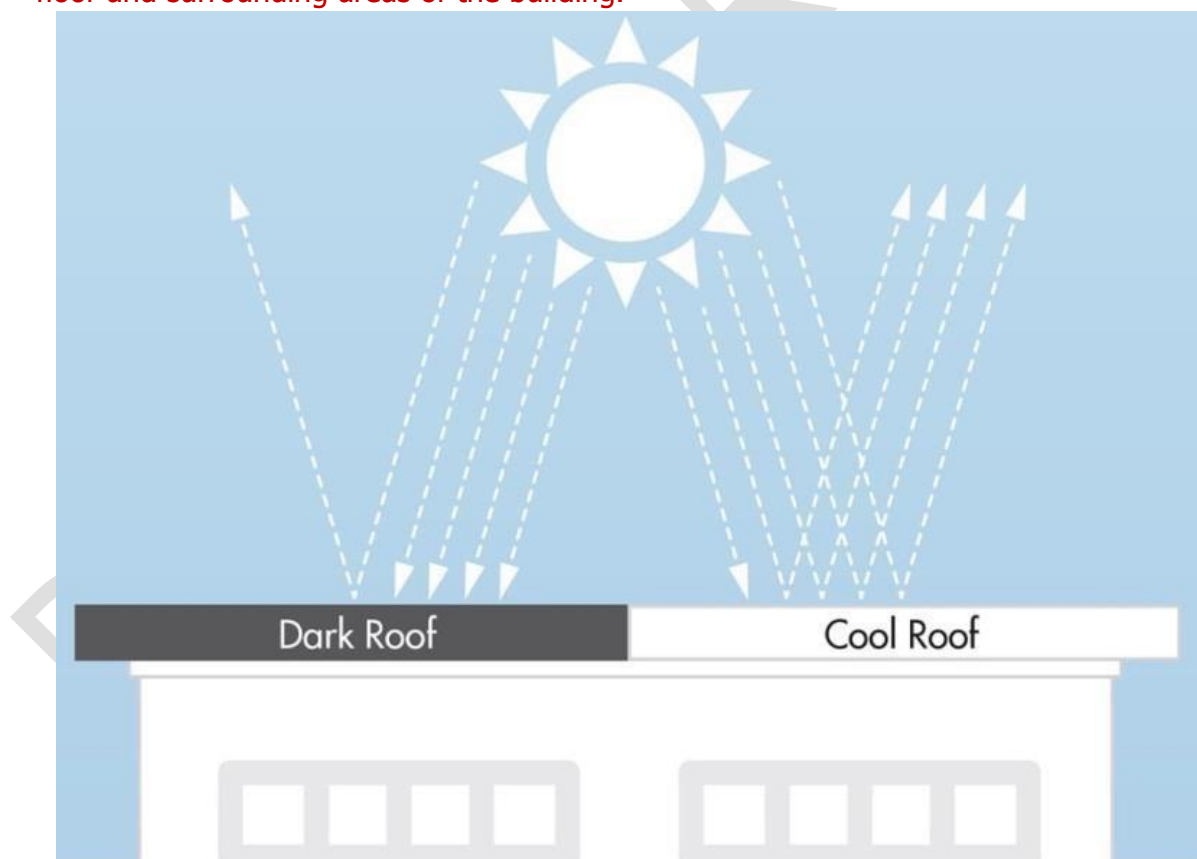


Plate 4: Cool roof comparative analysis (For reference purpose only)

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.

DETAILED REPORT

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.



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National Institutional Ranking Framework

Ministry of Education

Government of India

Welcome to Data Capturing System: COLLEGE

Submitted Institute Data for NIRF'2023'

Institute Name: Laxmi Education Societys Chinai College of Commerce & Economics Dr S Radhakrishnan Marg Andheri East Mumbai 400 069 [IR-C-C-34139]

Sanctioned (Approved) Intake

| Academic Year | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 2017-18 | 2016-17 |
|-------------------------|---------|---------|---------|---------|---------|---------|
| UG [3 Years Program(s)] | 900 | 900 | 900 | - | - | - |

Total Actual Student Strength (Program(s) Offered by Your Institution)

| (All programs of all years) | No. of Male Students | No. of Female Students | Total Students | Within State (Including male & female) | Outside State (Including male & female) | Outside Country (Including male & female) | Economically Backward (Including male & female) | Socially Challenged (SC+ST+OBC Including male & female) | No. of students receiving full tuition fee reimbursement from the State and Central Government | No. of students receiving full tuition fee reimbursement from Institution Funds | No. of students receiving full tuition fee reimbursement from the Private Bodies | No. of students who are not receiving full tuition fee reimbursement |
|-----------------------------|----------------------|------------------------|----------------|--|---|---|---|---|--|---|--|--|
| UG [3 Years Program(s)] | 1758 | 1839 | 3597 | 3581 | 16 | 0 | 21 | 49 | 70 | 0 | 0 | 0 |

Placement & Higher Studies

UG [3 Years Program(s)]: Placement & higher studies for previous 3 years

| Academic Year | No. of first year students intake in the year | No. of first year students admitted in the year | Academic Year | No. of students graduating in minimum stipulated time | No. of students placed | Median salary of placed graduates(Amount in Rs.) | No. of students selected for Higher Studies |
|---------------|---|---|---------------|---|------------------------|--|---|
| 2017-18 | 900 | 419 | 2019-20 | 377 | 7 | 230004(Two Lakh thirty thousand four only) | 9 |
| 2018-19 | 900 | 418 | 2020-21 | 362 | 0 | 0(Zero) | 0 |
| 2019-20 | 900 | 415 | 2021-22 | 390 | 6 | 168000(One lac sixty eight thousand only) | 82 |

Financial Resources: Utilised Amount for the Capital expenditure for previous 3 years

| Academic Year | 2021-22 | 2020-21 | 2019-20 |
|---|--|--|--|
| | Utilised Amount | Utilised Amount | Utilised Amount |
| Annual Capital Expenditure on Academic Activities and Resources (excluding expenditure on buildings) | | | |
| Library | 33716 (Thirty three thousand seven hundred sixteen only) | 6669 (Six thousand six hundred sixty nine only) | 149139 (One Lakh forty nine thousand one hundred thirty nine only) |
| New Equipment for Laboratories | 0 (Zero) | 0 (Zero) | 0 (Zero) |
| Other expenditure on creation of Capital Assets (excluding expenditure on Land and Building) | 7000 (Seven thousand only) | 31742 (Thirty one thousand seven hundred forty two only) | 13894 (Thirteen thousand eight hundred ninety four only) |

Financial Resources: Utilised Amount for the Operational expenditure for previous 3 years

| Academic Year | 2021-22 | 2020-21 | 2019-20 |
|---|--|--|---|
| | Utilised Amount | Utilised Amount | Utilised Amount |
| Annual Operational Expenditure | | | |
| Salaries (Teaching and Non Teaching staff) | 17636942 (One Crore seventh six Lakhs thirty six thousand nine hundred forty two only) | 15185184 (One Crore fifty one lakhs eighty five thousand one hundred eighty four only) | 13992449 (One Crore thirty nine Lakhs ninety two thousand four hundred forty nine only) |
| Maintenance of Academic Infrastructure or consumables and other running expenditures(excluding maintenance of hostels and allied services,rent of the building, depreciation cost, etc) | 324027 (Three lakhs twenty four thousand twenty seven only) | 194498 (One Lakh ninety four thousand four hundred ninety eight only) | 427273 (Four lakhs twenty seven thousand two hundred seventy three only) |
| Seminars/Conferences/Workshops | 0 (Zero) | 0 (Zero) | 0 (Zero) |

PCS Facilities: Facilities of physically challenged students

| | |
|---|---------------|
| 1. Do your institution buildings have Lifts/Ramps? | Not available |
| 2. Do your institution have provision for walking aids, including wheelchairs and transportation from one building to another for handicapped students? | No |
| 3. Do your institution buildings have specially designed toilets for handicapped students? | Not available |

Faculty Details

| Srno | Name | Age | Designation | Gender | Qualification | Experience (In Months) | Currently working with institution? | Joining Date | Leaving Date | Association type |
|------|-------------------------------------|-----|---------------------|--------|---------------|------------------------|-------------------------------------|--------------|--------------|---------------------|
| 1 | DR BALAJI BHAVANRAO KAMBLE | 56 | Assistant Professor | Male | Ph.D | 276 | Yes | 08-03-1999 | -- | Regular |
| 2 | PROF SUBHASH SHANKAR DAROLE | 59 | Associate Professor | Male | M.COM | 372 | Yes | 19-06-1991 | -- | Regular |
| 3 | PROF ASHOK JAYAWANT BHARASAKLE | 46 | Assistant Professor | Male | SET | 216 | Yes | 06-01-2004 | -- | Regular |
| 4 | PROF CHETAN MAHESH PANCHAL | 34 | Lecturer | Male | Ph.D | 84 | Yes | 08-06-2015 | -- | Adhoc / Contractual |
| 5 | PROF PRASIKA ABHIMANYU GAIKWAD | 39 | Lecturer | Female | B.Ed | 216 | Yes | 01-06-2004 | -- | Adhoc / Contractual |
| 6 | PROF MANISH RAJENDRA PRASAD JAISWAL | 30 | Lecturer | Male | M.Sc. | 84 | Yes | 01-06-2015 | -- | Adhoc / Contractual |
| 7 | PROF VINAY DASHRATH JADHAV | 28 | Lecturer | Male | M.Sc. | 84 | Yes | 01-06-2015 | -- | Adhoc / Contractual |
| 8 | PROF HARSHAD VISHNU DHAMANKAR | 36 | Lecturer | Male | MMM | 60 | Yes | 01-06-2017 | -- | Adhoc / Contractual |
| 9 | PROF BHARAT K SHIRGAONKAR | 27 | Lecturer | Male | M.COM | 36 | Yes | 07-06-2019 | -- | Adhoc / Contractual |
| 10 | PROF MANISHA NATHAN AJARA | 31 | Lecturer | Female | M. Phil | 48 | Yes | 19-06-2018 | -- | Adhoc / Contractual |
| 11 | PROF LILY PADMA NADAR | 44 | Lecturer | Female | M. Phil | 8 | Yes | 01-06-2014 | -- | Adhoc / Contractual |

| | | | | | | | | | | |
|----|-------------------------------|----|----------|--------|-------|-----|-----|------------|----|---------------------|
| 12 | PROF JHARNA PRASHANT SARKAR | 43 | Lecturer | Female | M.A | 8 | Yes | 01-06-2014 | -- | Adhoc / Contractual |
| 13 | PROF RAJU MISTRY | 31 | Lecturer | Male | PGDEM | 3 | Yes | 06-06-2019 | -- | Adhoc / Contractual |
| 14 | PROF KRUNAL DAMANIA | 48 | Lecturer | Male | CA | 96 | Yes | 01-06-2014 | -- | Visiting |
| 15 | PROF SAGAR PRADEEP ASRANI | 35 | Lecturer | Male | PGDM | 72 | Yes | 01-06-2016 | -- | Visiting |
| 16 | PROF ANKITA SANJAY SAWANT | 31 | Lecturer | Female | B.Ed | 36 | Yes | 15-07-2019 | -- | Visiting |
| 17 | PROF BHOJKUMAR CHANDRABAHADUR | 45 | Lecturer | Male | M.COM | 144 | Yes | 01-06-2009 | -- | Visiting |
| 18 | PROF HARESH DEWANI | 29 | Lecturer | Male | M.COM | 36 | Yes | 06-06-2019 | -- | Visiting |
| 19 | PROF JAINALI SHAH | 27 | Lecturer | Female | NET | 48 | Yes | 01-07-2018 | -- | Visiting |
| 20 | PROF BHAVIN SHAH | 37 | Lecturer | Male | M.COM | 60 | Yes | 01-06-2017 | -- | Visiting |
| 21 | PROF LYDIA KALGUTKAR | 35 | Lecturer | Female | M.A | 36 | Yes | 09-09-2019 | -- | Visiting |
| 22 | PROF KAPIL THAKORE | 50 | Lecturer | Male | CA | 36 | Yes | 10-06-2019 | -- | Visiting |
| 23 | PROF JIGNAKUMARI PRABHULA | 43 | Lecturer | Female | MBA | 60 | Yes | 12-06-2017 | -- | Visiting |
| 24 | PROF REETA SINGH | 31 | Lecturer | Female | M.A | 36 | Yes | 10-06-2019 | -- | Visiting |
| 25 | PROF RACHANA KAKKAD | 38 | Lecturer | Female | MBA | 36 | Yes | 10-06-2019 | -- | Visiting |
| 26 | PROF REETIKA KAMBLE | 24 | Lecturer | Female | NET | 14 | Yes | 22-11-2021 | -- | Adhoc / Contractual |
| 27 | PROF TABISH KHAN | 33 | Lecturer | Male | MBA | 12 | Yes | 05-07-2021 | -- | Adhoc / Contractual |



Government of India
Ministry of Education

Department of Higher Education

Statistics Division

New Delhi

Certificate



Reference No.C-34139-2019

This is to certify that RAMA SANJAY RASAL of Laxmi Education Societys Chinai College of Commerce & Economics Dr S Radhakrishnan Marg Andheri East Mumbai 400 069 has successfully uploaded the data of All India Survey on Higher Education(AISHE) 2019-2020.

(Madan Mohan)
Deputy Director General

Name of the signatory

Dated: 01/02/2024



Government of India

Ministry of Education

Department of Higher Education

Statistics Division

New Delhi

Certificate



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(Shri R. Rajesh)

Deputy Director General

Dated: 01/02/2024



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Ministry of Education

Department of Higher Education

Statistics Division

New Delhi

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(Shri R. Rajesh)

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Dated: 01/02/2024



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(Shri R. Rajesh)

Deputy Director General

Dated: 02/02/2024