

Solid Waste Management- Compost Pit



Nov 27, 2021 17:21:55
VN Purav Marg
Chembur
Mumbai Suburban
Maharashtra

Some College staff and students use bicycle



Nov 27, 2021 17:22:13
Chembur
Mumbai Suburban
Maharashtra

Rain Water Harvesting



LED Tube



Tree Plantation




Under ground Borewell



Nov 27, 2021 17:15:24
VN Purav Marg
Chembur
Mumbai Suburban
Maharashtra

7.1.3

Policy Documents on Environment and Energy Usage and Action taken and achievement report of Clear and Green campus initiative


PRINCIPAL
Mahatma Education Society's
Mahatma Night Degree College Of Arts & Commerce
Chembur, Mumbai - 400 071.



Mahatma Education Society's
Mahatma Night Junior & Degree College of Arts and Commerce
Chembur Naka, Mumbai – 400 071.

Policy Documents on Environment and Energy Usage

Mahatma Night Degree College of Arts and Commerce, Chembur regularly undertakes Quality audits on environment and energy. The institutional confirms its commitment to environment and energy initiatives through the following practices:

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

1. Green audit / Environment audit

Every year, the college carries out Green/Environment Audits to evaluate our capabilities and shortcomings in order to advance our long-term sustainability objectives. To ascertain how and where the majority of energy, water, or resources are being used, a green audit is a helpful tool. The college can then think about ways to save money and make adjustments. It is able to identify the kind and amount of garbage. Plans for trash reduction or recycling initiatives can be implemented. It will raise awareness of health issues and advance environmental ethics and ideals. It offers a deeper comprehension of how environmentally friendly actions affect college environment. Green audits will encourage resource conservation, which will result in financial savings. The college has to assess what it has done to help ensure a sustainable future.

2. Energy audit

An annual energy audit is required since it is crucial to evaluate our energy consumption. One cannot downplay the significance of lowering energy usage. Committed to lowering its carbon footprint even more, the college Utilizing its specific instruments, the energy audit will pinpoint energy waste. An analysis of this kind could identify defects that lead to a considerable energy waste. Significant savings can be obtained by fixing

by fixing these problems, which are frequently simple and inexpensive. The college adopts the auditing agency's recommendations to reduce energy use and takes note of the comments received.



3. Clean and green campus initiatives

The college Green Campus Policy aims to create a Clean and Green Campus where teaching and environmentally friendly practices work together to encourage eco-friendly and sustainable behaviour both on and off campus. Additionally, it gives the college a chance to redefine its environmental culture by encouraging staff and students to practice environmental ethics.

Objectives

- To raise awareness among the staff and students about the need to use less harmful items and more environmentally friendly goods and services.
- To emphasize the value of hygiene for a healthy lifestyle
- To raise public awareness of environmental issues through the planning of events, clean-up campaigns, rallies, seminars, workshops, talks, tree plantation drives, Rangoli competitions, study tours, excursions, guest lectures etc.
- To educate staff and students on the need of speaking out against harmful activities that harm the environment and encouraging environmentally friendly behaviour in society.

Initiatives Taken to Implement the Clean and Green Campus Policy

- By conducting tree plantation activity in campus area
- Ban on use of plastic in campus
- Use of solar light
- Use of LED tubes and power efficient equipment's
- Minimal use of papers
- Solid waste management
- Water Conservation
- E-waste management
- By conducting Green, Environment and Energy Audit



- Rain water harvesting system

4. Beyond the campus environmental promotion activities

The NSS unit and department of Environmental studies always conducts various programme on environmental issues in the residential area which is in the vicinity of college and also at railway stations.

This approach of conducting various activities not only aware people to keep environment clean and free from pollution but also motivate them to participate in this noble work.

The college and NSS unit of the college conducts following activities beyond the campus to promote environment friendly activity

- Swachh Bharat Abhiyan
- Tree Plantation
- Beach cleaning
- Waste management during Ganapati/ Devi Visarjan
- No plastic campaigns
- Creating awareness among people in the society about composting
- Save and conserve water awareness Drive
- E-Waste Management Drive

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Action taken and achievement report of Clear and Green campus initiative

The plan of action chalk out by the college towards clear and green campus initiative is as follows.

Sr. No.	Initiative	Action taken and achievement
1.	Green audit/ Environment audit	The college has completed all the process of green/environment audit
2.	Electrical safety audit	The college has completed all the process of electrical safety audit
3.	Energy audit	The college has completed all the process of energy audit
4.	Degradable waste management through composting	All the degradable waste generated in the college campus used for composting. The compost generated through composting used for plants and trees planted in the campus.
5.	E-Waste drive	E-Waste collection drive is conducted in the college campus. All the staff and students bring all the E-waste from their houses and collected in the college and then sent for further process through Stree Mukti Sanghatana
6.	No plastic campaign	All the college staff ensure that there will be no use of plastic material in the college premises.
7.	Restricted entries of automobiles	College allows restricted entries of automobiles to control pollution.
8.	Use of Bicycle	The college encourage students and staff to use bicycle for their transportation which will help to adopt Environment friendly lifestyle.
9.	Clean and green campus	The NSS unit of the college periodically conducts Swachh Bharat Abhiyan in the college campus and the vicinity
10.	Minimal Paper Usage	The college use both the side of paper for the printing any documents.
11.	Water Conservation	The college has Rain water harvesting system in the college campus
12.	Energy Resources	The college use solar energy resource as alternate energy resource to minimize the use of electricity.

13.	Energy saving policy	The students and staff switched off the lights and electrical gadgets when not in use.
14.	The Tree Plantation Drive	The NSS unit of the college conducts tree plantation drive in the college premises and adopted village.



Chambur

Principal
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Mahatma Education Society's
CHEMBUR CAMPUS

Fillari

Green Audit Report



Presented By
RB ENERGY CONSULTANCY

Academic Year
2022-23



GREEN AUDIT 2022-23



Green Audit Report of Mahatma Education Society's Chembur campus is conducted by RB Energy Consultancy Services and its team on **8th May 2023**.

Green Audit report states the initiatives taken by institute towards environment



Green Audit Assessment Team

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Introduction

"Beyond teaching, **mentoring.**
Beyond career-building, **character-building.**
Beyond institution-building, **nation-building.**
Because a nation **better taught,** is a nation **better empowered."**

Dr. K. M. Vasudevan Pillai

The Mahatma Education Society embarked upon its mission of "Education for all" with the Chembur English High School in the year 1970 by Mr. M. P Pillai and Dr. K. M. Vasudevan Pillai. The vision, dedication, global outlook, tenacious struggle and undaunted spirit of the Chairman and C.E.O., Dr. K. M. Vasudevan Pillai and the forward looking, untiring energy of the Secretary, Dr. Daphne Pillai has now transformed the Mahatma Education Society in to a vast educational organization, spread over six elegant campuses at Chembur, New Panvel (Sector 7), New Panvel (Sector 8), New Panvel (Sector 16), Borivali (Gorai) and Rasayani (Raigad District).

The Society now manages a total of 48 educational institutions providing quality education from kindergarten to Postgraduate professional courses in the faculties of Engineering, Architecture, Management, Teachers Training, Arts, Science and Commerce to more than 30,000 students with 2,000 Teachers and 1,500 members of Non-Teaching Staff. All institutions managed by Mahatma Education Society have excellent Professional Faculty, World Class Infrastructure, State-of-the art laboratories, well stocked libraries, computer centers with internet connectivity, separate hostels for boys and girls, cafeteria, gymkhana and playgrounds. Excellent results, 100% placement, interaction with the corporate world and global exposure are some of the special features of the institutions run by Mahatma Education Society. Popularly known as the Pillai Group of Institutions, this education major has its own teacher training institutes, which allow it to define its own standards and to achieve 100% results unflinchingly.

The Campus comprises of multiple colleges- Pillai College of Education & Research (PCER) (1990), Mahatma Night Degree College Of Commerce (MNDC)(1986)

The Campus has more than 1000 students enrolled and around 40 teaching faculty and staff on its payroll in the institution.

The campus is having following Colleges

Mahatma Night Degree College of Commerce

(MNDC) Bachelor of Commerce (Regular)

Pillais' College of Education & Research (PCER)

Bachelor of Education (B.Ed.) in English Medium



GREEN AUDIT 2022-23



Campus Information

The Campus has interconnected buildings. Campus building has 5 floors. The floor wise layout is presented in **Annexure 1**.

Floor wise Facilities of Campus

Floor	Facilities
Ground Floor	Indoor Games, Multi-Purpose Area, Boys Common room, Canteen, Open Space, Parking Space, Office, toilet
First Floor	Principal Cabin, Conference room, Staff rooms, Classrooms, Computer Labs, Toilet
Second Floor	Classrooms, Science lab, Cabin, Staff room
Third Floor	Classrooms, Method Room, Girls common room, toilet
Fourth Floor	Classrooms, Counselling room, Research lab, Research Presentation lab, Boys Common room, Toilet
Fifth Floor	Classrooms, Library, Reading room, Toilet



2. GEOGRAPHICAL LOCATION

Mahatma Education Society's Chembur Campus is spread over 1614 Sq. m.



Location of Mahatma Education Society's Chembur Campus



3. GREEN AUDIT

OBJECTIVES OF GREEN AUDIT

The main objectives of this green audit is to assess the environmental quality and the management strategies being implemented in the Campus, Chembur.

The specific objectives are:

1. To assess the quality of the water and air in the Campus
2. To monitor the energy consumption pattern of the college
3. To quantify the liquid and solid waste generation and management plans in the campus.
4. To assess whether the measures implemented by the campus have helped to reduce the Waste
5. To impart environment management plans to the college Green Audit
6. Providing suggestions for corrective actions and future plans.
7. To assess whether extracurricular activities of the Institution support the collection, recovery, reuse and recycling of solid wastes.
8. To identify the gap areas and suggest recommendations to improve the Green Campus status of the Campus

METHODOLOGY

The audit was conducted in the campus with physical inspection of the campus, observations, review of documents and interviews with stakeholders.

Locations on the panels and other areas in the common areas of the building were visited and observations were made and images were clicked as a matter of proof. This report includes suggestions to improve upon the faulty areas and a guide to improve the systems further.



3.1 Natural Light Design

Observations:

Every area in the campus receives a good portion of daylight.

1. The open corridors with high ceilings receive good adequate daylight.
2. The library, classrooms and laboratory have high ceilings, large doors and windows for flow of air and light
3. Curtains are used for few windows to reduce glare



Good Day Light in Library

Recommendations:

1. Few windows glass glaze should be replaced



3.2 Ventilation and Air Quality Design

Trees play an important ecological role within the urban environment, as well as support improved public health and provide aesthetic benefits to cities. Trees contribute to their environment by providing oxygen, improving air quality, and climate amelioration. In one year, a single mature tree will absorb up to 48 pounds of carbon dioxide from the atmosphere, and release it as oxygen. The amount of oxygen released by the trees of the campus is good for the people in the campus. So while you are busy studying and working on earning those good grades, all the trees on campus are also working hard to make the air cleaner.

Observations:

1. The classrooms, laboratory, corridors are large enough to get adequate ventilation.
2. The classrooms and laboratory and library have large doors and windows for proper ventilation.
3. Laboratory in the campus has exhaust to remove pollutants, allergens, fumes, odors and unwanted moisture. Campus Canteen also has exhaust.
4. Air Conditioners are installed in few labs and auditorium
5. Campus has green belts within the campus.
6. Fire alarm is installed on each floor.
7. Few indoor plants are planted within the campus. The details of these plants are given in

Annexure II



Trees around the Campus



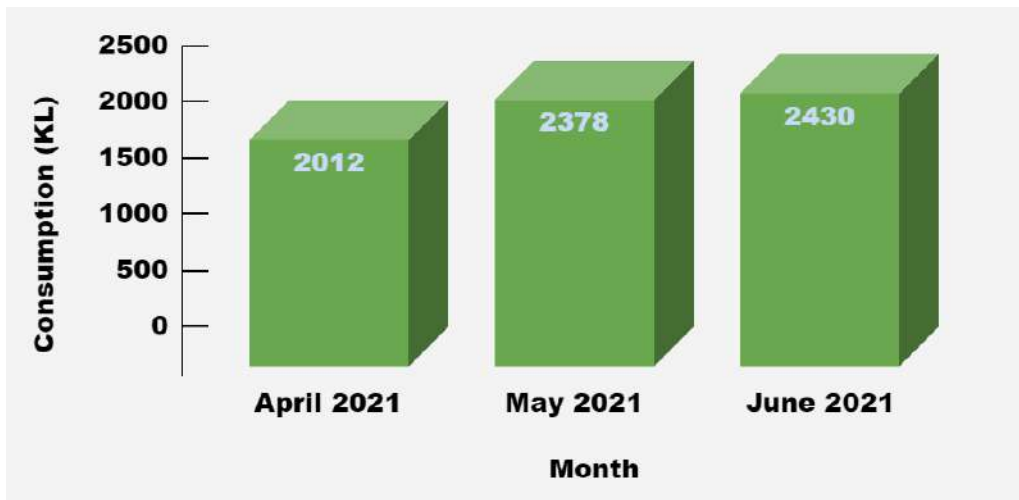
Recommendations:

1. Exhaust to be cleaned and maintained.
2. Exhaust fans are installed only in the chemistry lab. More exhaust needs to be installed.
3. Only a few indoor plants were observed within the campus. Few artificial plants were observed in the campus that could be replaced by indoor plants.
4. Smoke detectors need to be installed.

3.3 Water Management

Campus uses water supplied by BMC-Brihanmumbai Municipal Corporation. Campus also uses bore well water and has sufficient water supply. The water quality is tested and approved by BMC. Average consumption of water in the campus is 4 KL/day. Total water consumption for 3 months June 2021 to August 2021 is 2273 KL/month. This calculates to 7 L/person/Day which is far below the standard norms. This was found due to the pandemic and after verifying the previous report it is found to be normal of 20 L/person/day.

The figure below shows the consumption of water for 3 months.



Monthly Average Water Consumption in Campus



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Observations:

1. There are enough water storage facilities in the campus. BMC water is stored underground and in overhead tanks.

Storage type	Storage Quantity	Total Capacity
Underground Tank	3	32K L
Overhead	3	435 KL

2. The water is distributed from these tanks to various parts of campus. The distribution of water within the campus is diagrammatically represented in.
3. Rainwater harvesting installation is the major step taken by college for water management. The water collected from the roof during the rainy season is collected in recharge pits and is used to recharge fire aquifers and tube wells. Part of water collected from rain harvesting is stored in underground storage tanks.
4. Water collected from rainwater harvesting is used for flushing in toilets, gardening and fire water makeup.
5. Drinking water facility is found to be efficient in the campus. 3 Purifiers and water coolers are installed on each floor.
6. Campus floors are cleaned and well maintained. Floors are cleaned and mopped daily.
7. Water saver faucets are installed in few washrooms
8. Water leakages are attended and maintained on time by inhouse team.
9. Signages are provided at a few water points.



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Drinking Water Facility with signage

Recommendations:

1. Water saver faucets need to be installed in every washroom.
2. Dual flushing should be provided in the washrooms to reduce 20% of water wastage.
3. Signages at every water supply point and washrooms required to emphasize on water conservation.
4. Water coolers which are not working need to be repaired
5. Water meters can be installed to quantify water consumption, depending on which proper measures can be taken to conserve more water.
6. Grey water or sewage recycled water should be used in toilets for flushing. This can reduce fresh water usage.
7. Awareness among students to conserve water campaigns has to be conducted.



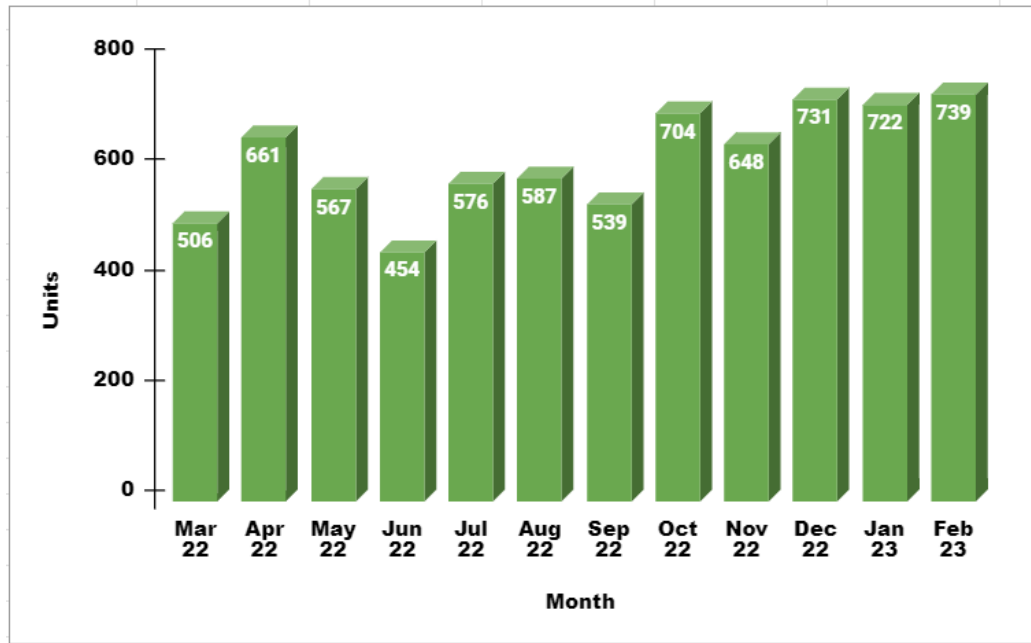
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3.4 Energy Use and Conservation

This audit deals with conservation of energy and methods to reduce the amount of use of energy.

Major electric consumption is through electricity used, provided by Tata Power.



Monthly Energy Consumption from March 2022 to Feb 2023

The monthly average consumption of electricity from March 2022 to Feb 2023 is around 620 KWh(units). Major electricity consumption are as follows

Sl. No.	Equipments	Quantities
1	CFL and Tube lights	94
2	Light Emitting Diode-LEDs	12
3	Fans	52
4	Computers	84
5	Air Conditioners	07
6	CCTV	5
7	Printers	7
8	Projectors	3
14	Lifts	1



Observations:

1. Every classroom and lab have a sufficient number of tube lights, LEDs and fans.
2. Air Conditioners used in campus are 1 star or 3 star. Few old ones have no stars.
3. UPS systems are provided to all computer equipped labs to prevent unexpected disruptions due to power cut.
4. All computers have LED screens. Signages are put on the wall to shut down PCs when not in use.
5. Signages are also provided beside switch boards to switch OFF lights and fans when not in use to encourage users to save electricity.
6. Many of the conventional tube lights are replaced with LEDs.



Air Conditioners Installed in Lab



First Aid Box

Recommendations:

1. Diagrams are recommended at every switch board to point the correct tube light and fan.
2. Old Air Conditioners without stars need to be replaced.
3. New electronic devices while purchasing should star ratings as per BEE (Bureau of Energy Efficiency).
4. Light reflectors should be used so that the light is spread to large area and also reduces electricity consumption
5. Control sensors can be used to dim the light automatically when people are not around.
6. Emergency Exit Signage is required



3.4.1 Use of LPG and Natural Gas-Onsite Energy Generation:

Observations:

1. LPG gas are used in canteen for cooking
2. Recycle of used cooking oil in the canteen to biodiesel
3. 1 diesel generator 250 KVA for backup can be arranged for emergency power failure.

Recommendations:

1. LPG Gas cylinders should be stored in approved cages and be prevented from falling.
2. Solar Panels should be installed to save energy consumption.

3.4.2 Temperature and Acoustic Management

1. The trees planted in the campus helps in reducing temperature and also reduces noise pollution.
2. Maintenance free tiles used on the walls of the building not only reduces the cost of the building but also reduces the temperature within the building.

3.5 Waste Management

Human activities create a lot of hazardous wastes. Waste management audit checks the ways these wastes are dealt with. Wastes paper wastes, solid wastes, plastic wastes and also e-wastes.

3.5.1 Sewage Water Management



Maintenance Free tiles on the building



Green Belt within the campus

Waste water is generally generated from toilets, washrooms and canteen. There are 05 washrooms in the campus.



Observations

1. Waste water generated from toilets, canteen and laboratories are connected to sewerage system provided by BMC

Recommendations:

1. Sewage treatment plant to be installed in the campus.

3.5.2 Paper Scrap Management

Waste paper is the main waste generated since it is an academic institution. Campus has taken many steps to reduce these wastes.

Observations:

1. Most of the documents are maintained online.
2. Both sides of the paper are used while printing and taking photocopies.
3. There are more than 7000 e-books made available online for students and staff.
4. Notices are made available on the websites and also put on the notice board.
5. Internal communications are done through intercoms, mails, messages and whatsapp.
6. Old submissions, papers after 3-4 years as per University norms are archived stored in the storage room at the ground floor.
7. The old papers are exchanged with new papers from scrap dealers.





Recommendations:

1. Campus can opt for a student portal for putting up notices, submission of write ups and assignments.
2. Paper usage should be monitored, depending on which some digitization can be brought up to reduce paper wastages.
3. Separate waste collection bins required at every corner which are found placed only in the canteen.

3.5.3 Solid Waste Management

Observations:

1. Separate bins for wet and dry waste are found in the canteen.
2. Campus has installed a composting unit to deal with these wastes.
3. In other areas like classrooms, staff rooms or offices mostly paper waste or plastic wastes are generated.
4. Dust bins are found in every corner of every classroom.
5. Signages were found near a few dustbins.

Recommendations:

1. Separate bins to segregate waste should be provided as provided in the canteen.
2. Plastic bottles should be given for recycling
3. Signages should be provided at every point of collection.

3.5.4 ToxicWaste Management

Observations:

1. The campus is almost digitized to a large extent. It has computer enabled classrooms, AV rooms, biometric attendance system, students and staff portal. All these facilities lead to reduction in wastage.
2. Old electronic devices are given to dealers under a buy back policy.



3.6 Building Maintenance

Observations:

1. Building is covered with maintenance free tiles. No leakages were found and were maintained.
2. Campus is easily accessible from the main road.
3. Campus has 1 staircase and 1 elevator.
4. Staircases are 2 feet wide and uncluttered, so can be used for emergency exit during an emergency
5. Fire extinguishers and fire hydrants are provided near the staircase and elevators.

Recommendations:

1. Signages required near every emergency fire exit point, required during an emergency.
2. Hand rails should be provided to every staircase to avoid falling during an emergency.
3. Few fire extinguishers required to be serviced.
4. Fire safety management training programs should be conducted annually.



Fire extinguisher and Fire Alarm



3.7 Initiatives for Green Management

Observations:

1. VENTEL Cell initiated – activities fostering Vocational Education, Nai Talim, Experiential Learning is conducted. Celebration of days such as World Environment day, World Population Day.
2. MES's Chembur Campus is a recognized Swachhta Action Plan Institute and received Certification from MGNCRE – Mahatma Gandhi National Council of Rural Education.
3. The Institution has successfully formed the Swachhta Action Plan Committee and constituted the working groups Post COVID-19 for Sanitation and Hygiene, Waste Management, Water Management, Energy Management and Greenery along with the observation of two environment related days.
4. MES's, Chembur in association with University of Mumbai – Thane Sub Campus has organized one week Nai Talim Week focusing on Swachhta Diwas, Elocution on Environmental Awareness, Session on Health guide – Post COVID, Vocational education – Kitchen gardening to school students.
5. MES's ,Chembur steps forward for Beach Cleanliness Drive, Mangrove Cleanliness Drive, Wealth from Waste, EVS Exhibition – making and selling of eco-friendly stationery, cloth bags etc.
6. Expert sessions on Swachhta, Health and Hygiene, Celebration of days and competitions – Quiz and Elocution are conducted regularly.
7. Wet Waste management is also done in the college campus.
8. MES's, Chembur is taking its best efforts in making the campus paperless and encouraging e- documentation.



GREEN AUDIT 2022-23



Use of plastic bottles for gardening

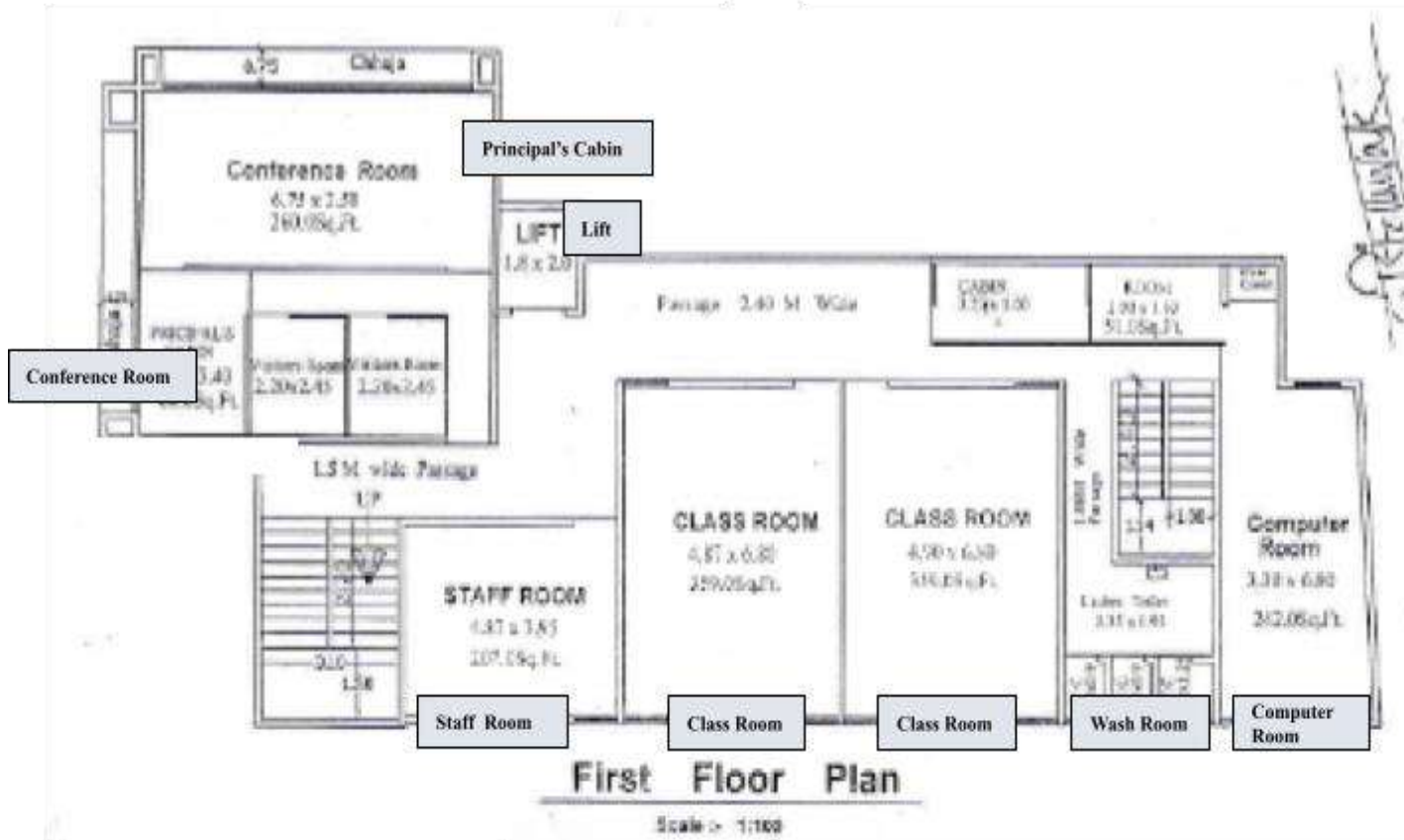
Recommendations:

1. Vertical gardening on campus walls is recommended using indoor plants.
2. More webinars, workshops and outdoor activity can be initiated to increase the awareness.
3. Renovation of the cooking system in the canteen to save gas.
4. Establish a purchase policy that is energy saving and eco-friendly.
5. Replace incandescent and CFL lamps with LED lights.
6. Avoid plastic/thermocool plates and cups in the college level or department level functions.
7. Introduce add-on courses eco-friendly income generating to all interested students.



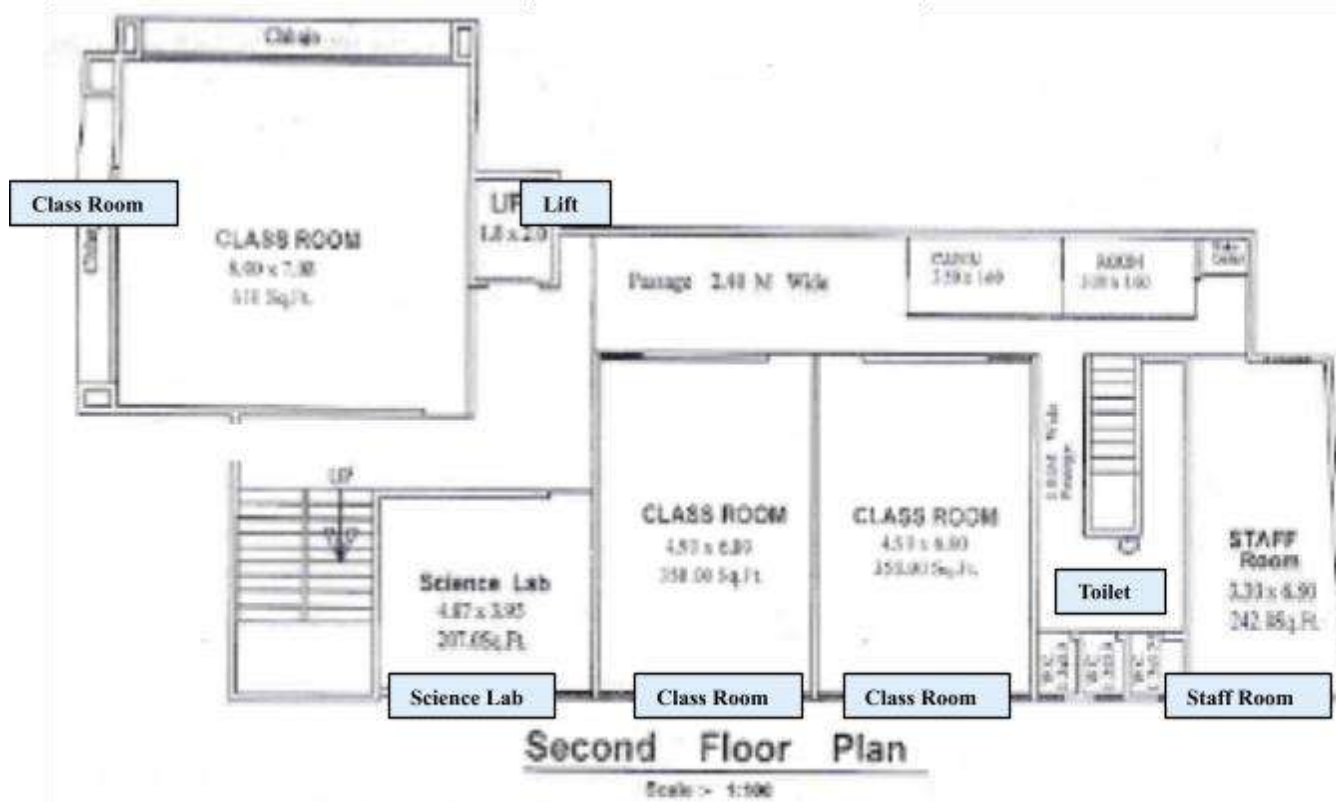
ANNEXURE 1: CAMPUS FLOOR PLAN

First Floor





Second Floor

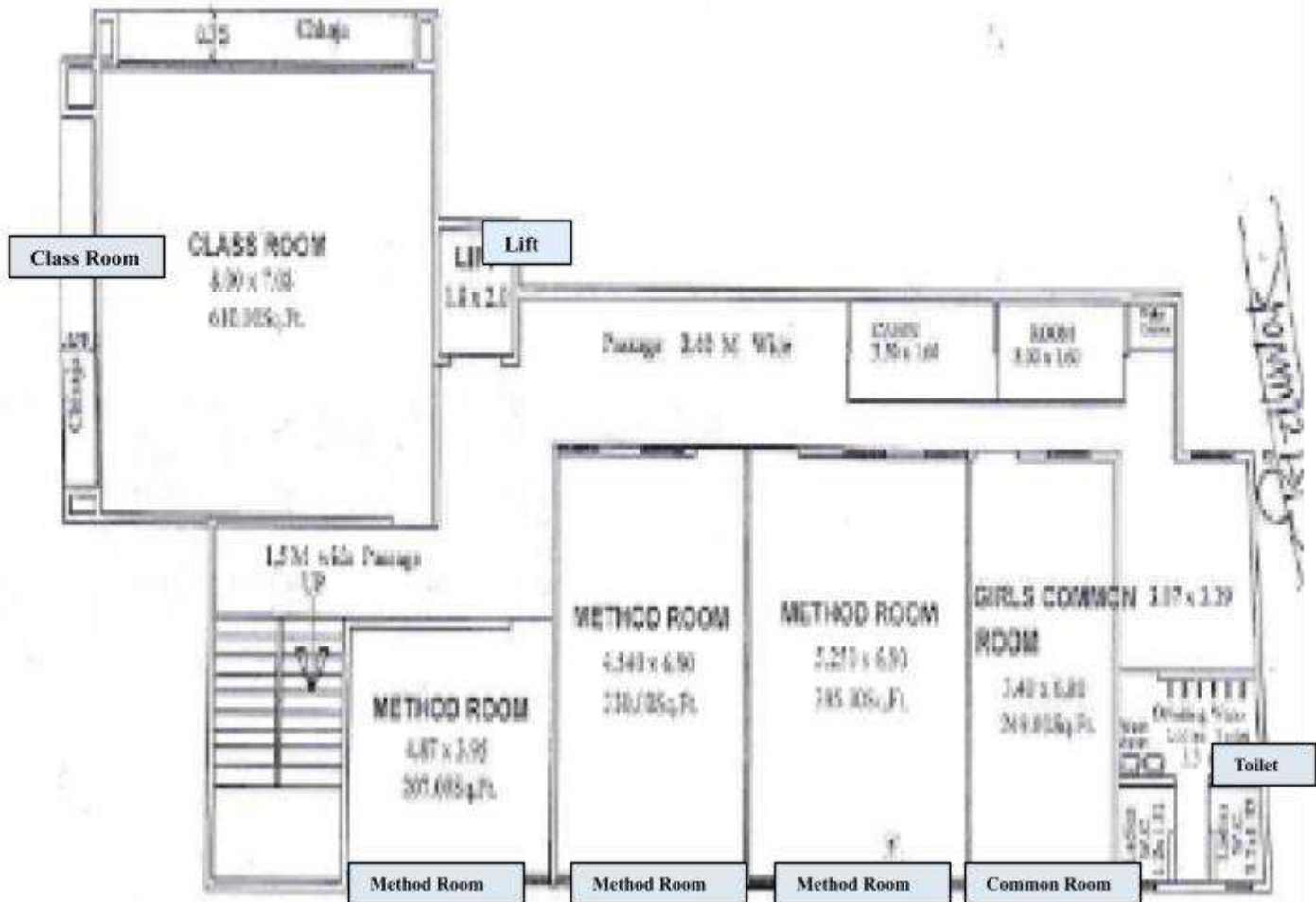




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Third Floor

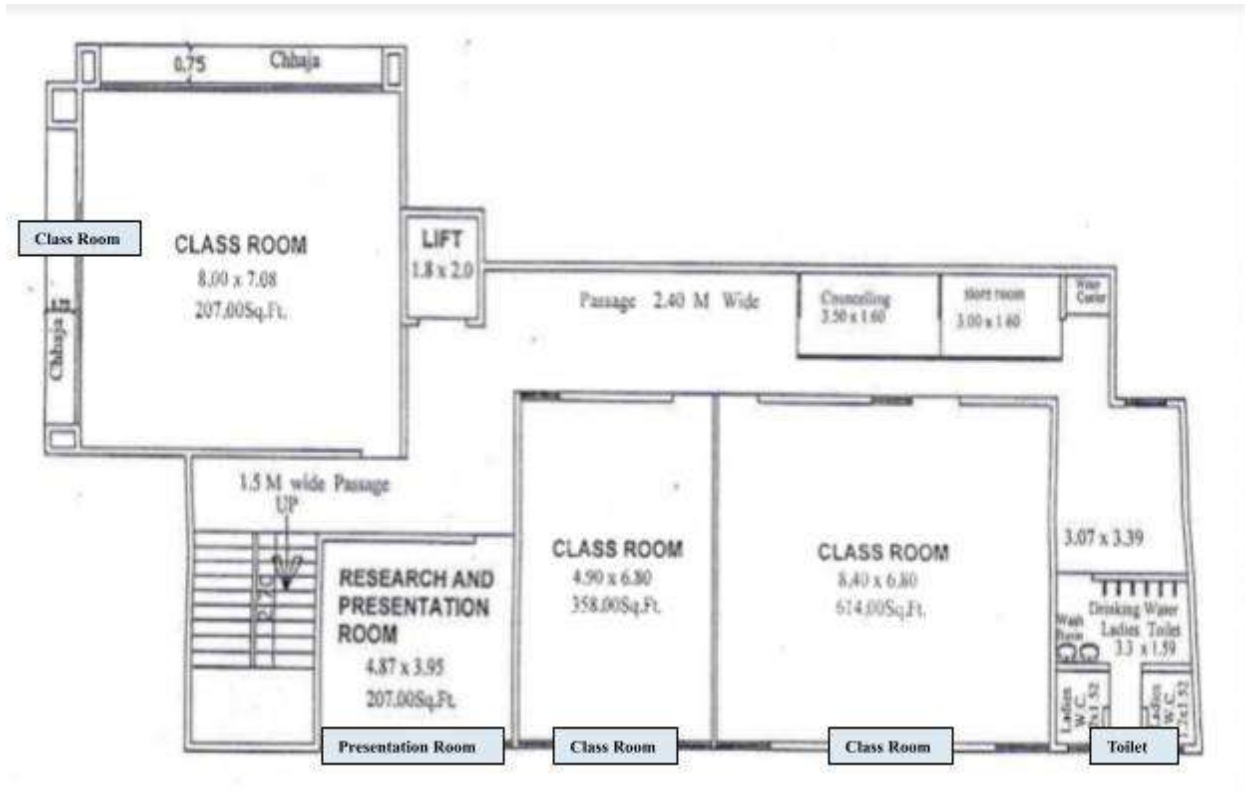




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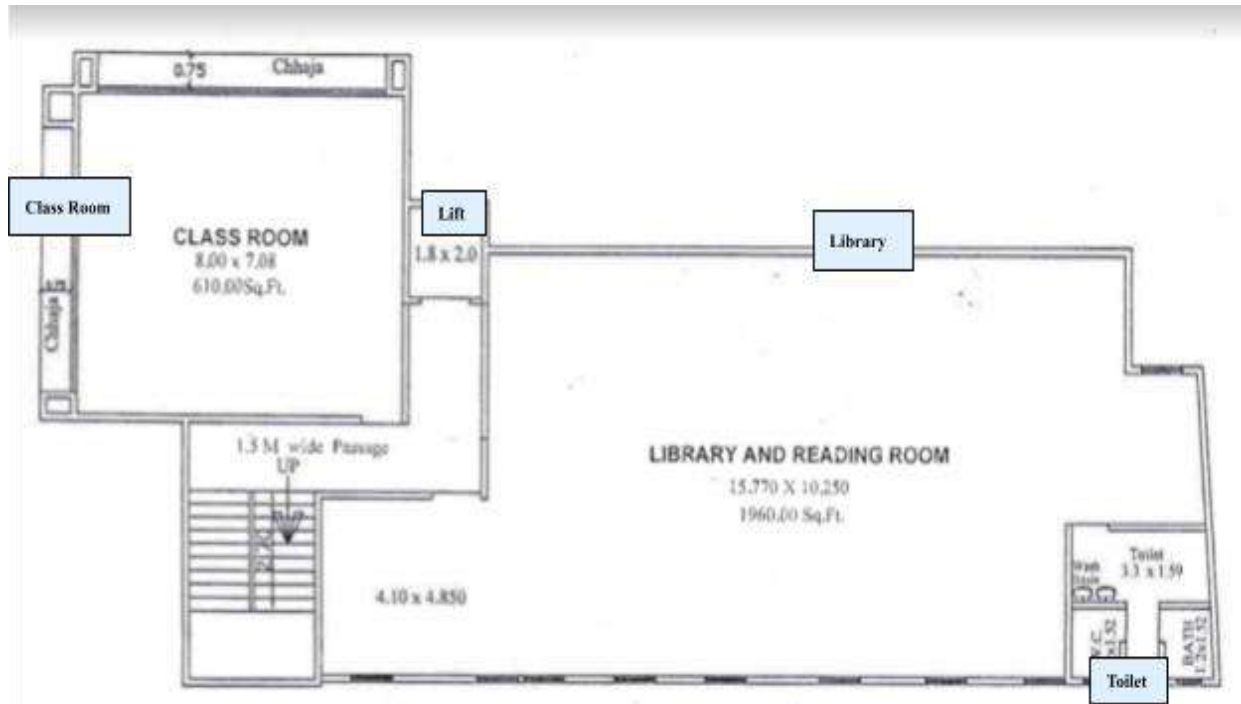


Fourth Floor





Fifth Floor



Fifth Floor Plan

Scale :- 1:100



Annexure II-Indoor Gardening

The indoor plants are very beneficial. It purifies the air pollution.

Total plant species identified in the campus-

Sl. No.	Species/Scientific name	Common Name	Family
1	Aloe	Aloe Vera	Asphodelaceae
2	Bamboo plant	Bambusa vulgaris	Poaceae
3	Chinese Evergreen	Aglaonema	Araceae
4	English Ivy	Hedera helix	Araliaceae
5	Janet Craig	Dracaena fragrans	Asparagaceae
6	Golden Pothos or Devils Ivy	Epipremnum aureum	Araceae
7	Mass Cane	Dracaena fragrans	Asparagaceae
8	Snake plant	Sansevieria trifasciata	Asparagaceae
9	Peace Lily	Spathiphyllum	Araceae
10	Red-edged Dracaena	Dracena marginata	Asparagaceae
11	Spider Plant	Chlorophytum comosum	Asparagaceae
12	Parlor Palm	Chamaedorea elegan	Arecaceae



GREEN AUDIT 2022-23



ANNEXURE III- List of Electrical Areas and Electrical Instruments

Sr. No.	Facility	Details of Provisions
1	Accounts Department	Computers, Printer
2	Administration office	Computers, Printer
3	Classrooms	Projectors, Speakers, Fans, Tube Lights, LEDs, Music System
4	Computer Laboratories	Computers, Air conditioners, Printers, Scanners
5	Director's room and Principal's room	Computers, Air conditioners, Printers, Scanners, CCTV
6	Library	Computers, Printers
7	Lobbies	CCTV, Television, Music System
8	Staff Rooms and Faculty Rooms	Computers, Printers, Air conditioners



GREEN AUDIT 2022-23



ANNEXURE-IV Distribution of Computers and Printers

Sr. No.	Facility	Number of facility	Computer	Printer
1	Accounts Department	1	7	2
2	Administration office	2	2	2
3	Classrooms	9	-	-
4	Computer Laboratories (2)	1	30	1
5	Principal's Room	1	1	1
6	Library	1	3	1
7	Lobbies -Ground floor	1	1	0
8	Conference room	1	1	1
9	Staff Rooms	1	13	1
10	Computer Lab	1	26	1
TOTAL			84	10



ANNEXURE-V-Checklist of Green Audit

1. Checklist for DayLight

Sr. No.	Feature	Availability
1	Curtains for window covering	✓
2	Glazing on windows	x
3	Heighted windows	✓
4	Openings to East or South to maximize air and sunlight entry	✓
5	Overall structure of building such that sunlight reaches all areas	✓
6	Sufficient illumination	✓
7	Use of glass as facilitator of natural light	✓
8	Use of Sunshade	x
9	Wider doors	✓
10	Windows Operation	✓
11	Windows with UV filtering	x



1. Checklist for Ventilation and Air Quality

Sr. No.	Feature	Availability
1	Air Roof Ventilators	x
2	Cooling System	x
3	Exhaust fans	✓
4	Height of the Ceiling	✓
5	Spacious Corridors	✓
6	Windows Operating in Condition	✓

2. Checklist for Water Management

Sr. No.	Measures	Availability
1	Drip Irrigation	✓
2	Dual flush toilet with cistern	x
3	Flow control water equipments	x
4	Flow Regulators to water taps	x
5	Maintenance through efficient Plumbing System	✓
6	Rainwater harvesting	✓
7	Regular maintenance for leakage free plumbing system	✓
8	Toilet Stopcock	x
9	Water free urinals System to save water	x



GREEN AUDIT 2022-23



3. Checklist for Energy Use and Conservation

Sr. No.	Measures	Availability
1	Automatic electrical system monitoring	x
2	Automatic light control	x
3	Controlled Lighting	x
4	Energy efficient equipment	✓
5	Energy saving design	✓
6	Natural light Usage	✓
7	On-site energy generation	✓
8	Regular maintenance of electrical system	✓
9	Solar panel installed	x
10	Use of CFL and LEDs	✓
11	First Aid Box	✓
12	Fire Extinguisher	✓
13	Fire Alarm	✓
14	Earthing test reports found clear	✓
15	Signage near Power House	x



4. Checklist for Waste Management

Sr. No.	Feature	Availability
1	Bins at ideal location to collect garbage	✓
2	Coloured bins with signage to collect garbage	✓
3	Compost management	✓
4	Donation of computers to NGOs and needy people	✓
5	Efficient Disposal	✓
6	Efficient E- waste management by collecting it in specific place	x
7	Outsourcing of garbage to agency for recycling	x
8	Printing on both sides of paper	✓
9	Purchase of electronic products from company's with buyback policy	✓
10	Rainwater harvesting	✓
11	Recycling project or program	x
12	Reuse of printed paper/ envelopes	✓
13	Reusing	x
14	Sale of books to its user for minimal charges	✓
15	Segregation of dry and wet waste	x



5. Checklist for Building Maintenance

Sr. No.	Feature	Availability
1	Audio guidance for specially abled	x
2	Availability of wheelchair	x
3	Braille assistance for specially abled	x
4	Easy access to the main entrance of the building	✓
5	Elevator	✓
6	Follow standard procedures for commissioning of electrical/plumbing system	x
7	Personalized services by staff for differently abled	x
8	Preferred car park spaces for specially abled	✓
9	Purchase of standardized and quality material for repair	✓
10	Ramp/ stairs with handrails on at least one side	✓
11	Regular maintenance of building	✓
12	Signage in common and exterior areas	✓
13	Toilets in common areas	✓
14	Uniformity in floor level	✓
15	Use of chemical free products for cleaning	x
16	User awareness program to minimize damage of property	✓



GREEN AUDIT 2022-23



7. Checklist for Green Management

Sr. No.	Green program	Availability
1	Availability of e-books/ magazines and online resource	✓
2	Buying recycled material	x
3	Campus conduct Environment Awareness program	✓
4	Contribute library information on sustainability resources to Campus publication, blog or website	✓
5	Creation of “Green Team” in the institution/library	x
6	Outreach relationships with local groups interested in environmental concern and satisfy their information needs	x
7	Recycling of Papers, aluminum, plastic, e-waste	✓
8	Reduce, Reuse and recycle of the products	✓



GREEN AUDIT 2022-23



ACKNOWLEDGEMENT

RB Energy Consultancy Green Audit Team acknowledges with thanks the cooperation and support extended to the team members during the Green Audit at MAHATMA EDUCATION SOCIETY's Chembur Campus.

We deeply appreciate the interest, enthusiasm and commitment of MAHATMA EDUCATION SOCIETY, Chembur Campus team towards the Green Audit activity. We would also like to place on record our sincere thanks and appreciation to all other members who helped in the Audit.

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We recommend that you have mission critical equipment re-inspected on an annual basis and that you keep previous inspection reports to help with establishing baseline conditions for any items in question. The conditions and recommended actions reported herein are merely the opinion of the Audit Team and any item with an action level should be investigated and repaired by a qualified and licensed person.

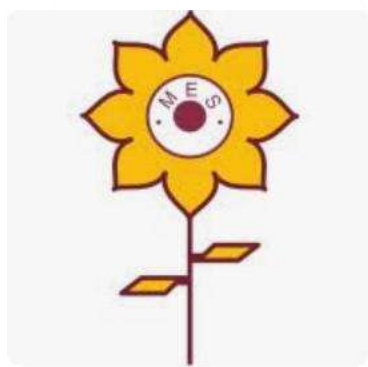
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RB Energy Consultancy Services and its employees assume no liability whatsoever for any damage or loss arising from or connected with this inspection and report, including discovering, or failing to inspect or discover any condition.

We reserve the right to refuse to open or access any equipment in cases where there is insufficient PPE (personal protective equipment) available or an insufficient protective boundary for nearby personnel.

Electrical Energy Audit Report

For MAHATMA EDUCATION SOCIETY CHEMBUR



Presented By
NEW RB ENERGY CONSULTANCY



Conducted on – 28 APRIL -2023

ACKNOWLEDGEMENT

RB Energy Consultancy Electrical Safety Audit Team acknowledges with thanks the co-operation and support extended to the team members during the Electrical Safety Audit at MAHATMA EDUCATION SOCIETY (CHEMBUR).

We deeply appreciate the interest, enthusiasm and commitment of MAHATMA EDUCATION SOCIETY (CHEMBUR). team towards the Electrical Safety Audit activity. We would also like to place on record our sincere thanks and appreciation to all other members who helped in the Electrical Safety Audit.

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7	General Observations & Recommendations	15
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9	Conclusion	21

1. INSPECTION IDENTIFICATION

Client Name	MAHATMA EDUCATION SOCIETY
Site Location	MAHATMA EDUCATION SOCIETY (CHEMBUR)
Performed By	RB ENERGY CONSULTANCY
Scope of Work	ELECTRICAL ENERGY AUDIT

2. SPECIFICATIONS OF INSTRUMENTS USED

The following equipment's were used to perform this study

Sr. No	Instrument	Make	Range of Instruments
1	Thermal Imager	Testo	Temperature range - 40°C to 500°C
2	Load Manager	Trinity Energy System- (Oracle)	RMS AC Voltage -230 /415 V RMS AC Current Up to 1000A
3	Digital Clamp meter	Meco	400A AC / DC,

3. INTRODUCTION

This report details the Electrical Safety Audit activity conducted for MAHATMA EDUCATION SOCIETY (CHEMBUR). The audit was carried out with the assistance of a member of staff whose role was to identify and locate equipment to be inspected together with opening Electrical Panel doors.

The aim of this report is to highlight the areas that do not comply with the statutory electrical safety rules. Recommendations are provided for the issues observed as per the priority of High, Medium and Low basis which will help the client to take appropriate action on the same.

Locations on the panels and other areas in the common areas of the building were visited and observations were made and images were clicked as a matter of proof. This report includes suggestions to improve upon the faulty areas and a guide to improve the systems further.

4. RECOMMENDATIONS

The recommendations given in this report are intended as a guide only and should be used in conjunction with advice from the maintenance services provider. The priorities are not intended to be prescriptive; recommendations will depend on individual equipment's.

The recommendation priority will very much depend on the type of components being inspected and their environment. As an example, the following priority classification that will be applied for taking action on the respective areas

Priority	Recommendations
1	Immediate action should be taken
2	Remedial action should be undertaken at the earliest opportunity
3	Remedial action should be taken at the next planned maintenance activity

The actions to be taken are completely on the client and the audit company shall not be responsible for it.

Note: Please note that the below mentioned pending/snags are recorded during our visit at sites. There can be cases where these pending snags were addressed by client in due course of time.

5. REPORT SUMMARY

Note: - Following are a list of common observations made. These are very HIGH priority

Panel Name	Equipment / Item	Observation	Recommended Action	Priority
COMMON OBSERVATIONS	First Aid / Shock Treatment Charts	Shock treatment charts not displayed in panel room	individual panel rooms to have a pictorial and explanatory shock treatment chart	1
	Fire Schematic	Fire schematic not mentioned at the entry of panel rooms	Fire schematic needs to be provided at every panel room	1

observations and are needed to be complied with as soon as possible.



Shock treatment charts not displayed in panel room,

Fire schematic not mentioned at of DB

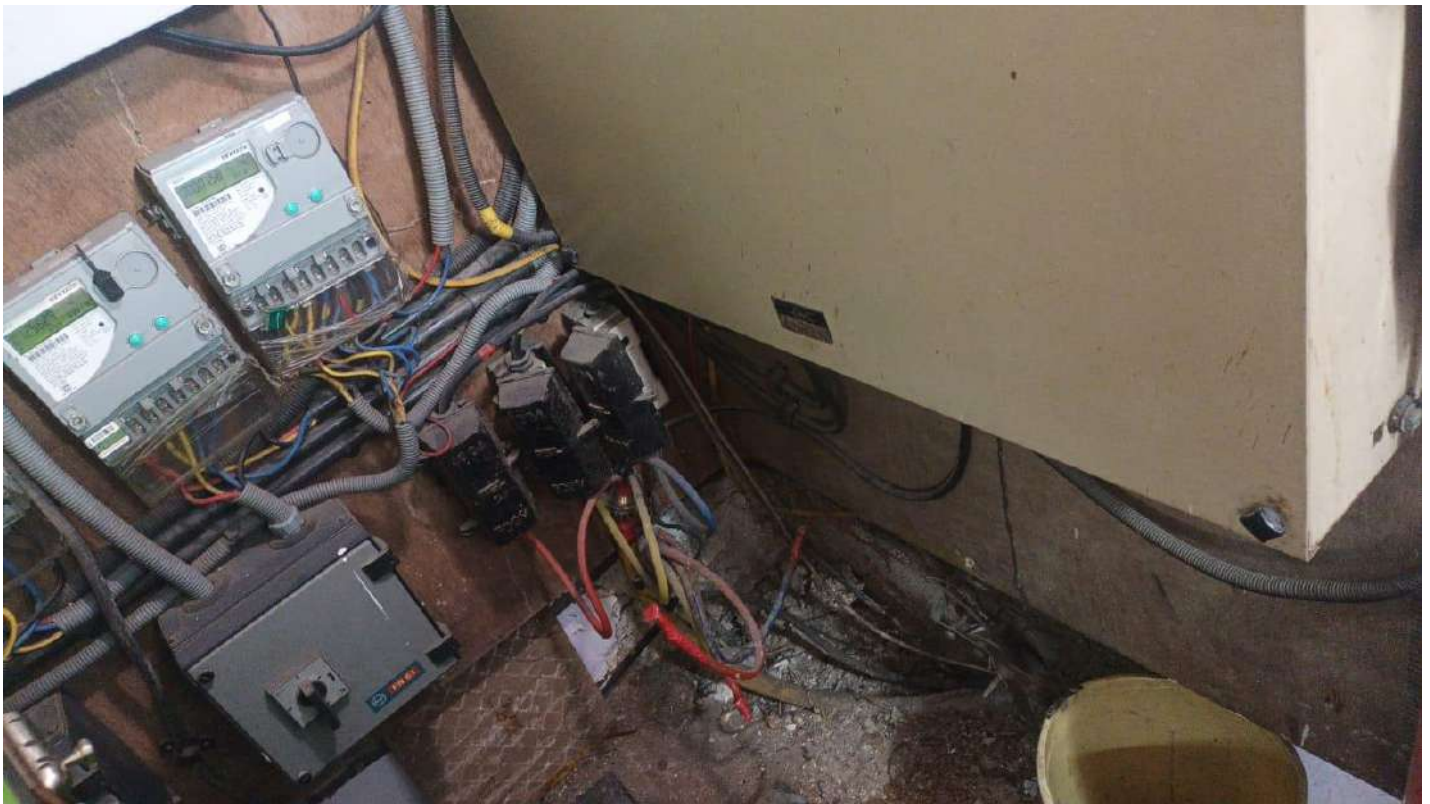
Electric room is labeled with "Electric Room" "Danger 440 Volts" "Restricted Entry

Electrical single diagram is not found.

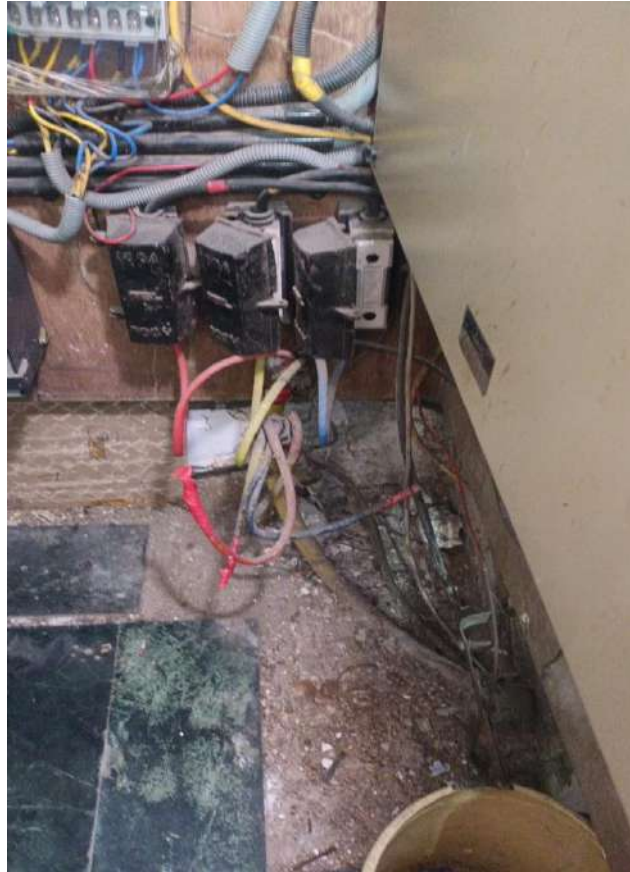
The following is a list of detailed observations found during the Electrical Safety and Energy Audit activity. The recommendations for the observed issues are also mentioned in the report below.

5.1 MAIN POWER PANELS

Panel Name	Equipment / Item	Observation	Recommended Action	Priority
A	Electrical Single line diagram	Electrical single diagram is not found in electrical room	In case of emergency Electrical single diagram will be useful to understand existing connection.	2
	Fire Extinguishers	Fire extinguisher are provided but not 5ft on wall mounted	They should be wall mounted for ease in operation during fire hazards	2



Panel Name	Image No.	Observation	Recommended Action	Priority
Distribution board & Sub Distribution board	A, B,C,D, E,F,G,H I,J,K,L	O/G cable tagging is required & cable entry need to be closed. so that lizard will not enter into panel. Without lug wire conductor is connected to MCB.	Kindly get the tag installed for proper identification of cables. Cable openings need to be closed. Panel cleaning is required by blower. Proper straight pin lug is required.	2
		Glanding is not done to cable. Incoming wire openings need to be closed. So that lizard will not enter into panel.	Kindly get proper glanding done.	2
		Enclosure not provided on sub distribution panel.	Kindly provide enclosure.	2
		Electrical Insulating mat is not founding on flooring	Electrical Insulating mat is provided on flooring	



Main electric cabin

Electrical single diagram is not found in electrical room.

Electric room is labeled with "Electric Room" "Danger 440 Volts" "Restricted Entry"

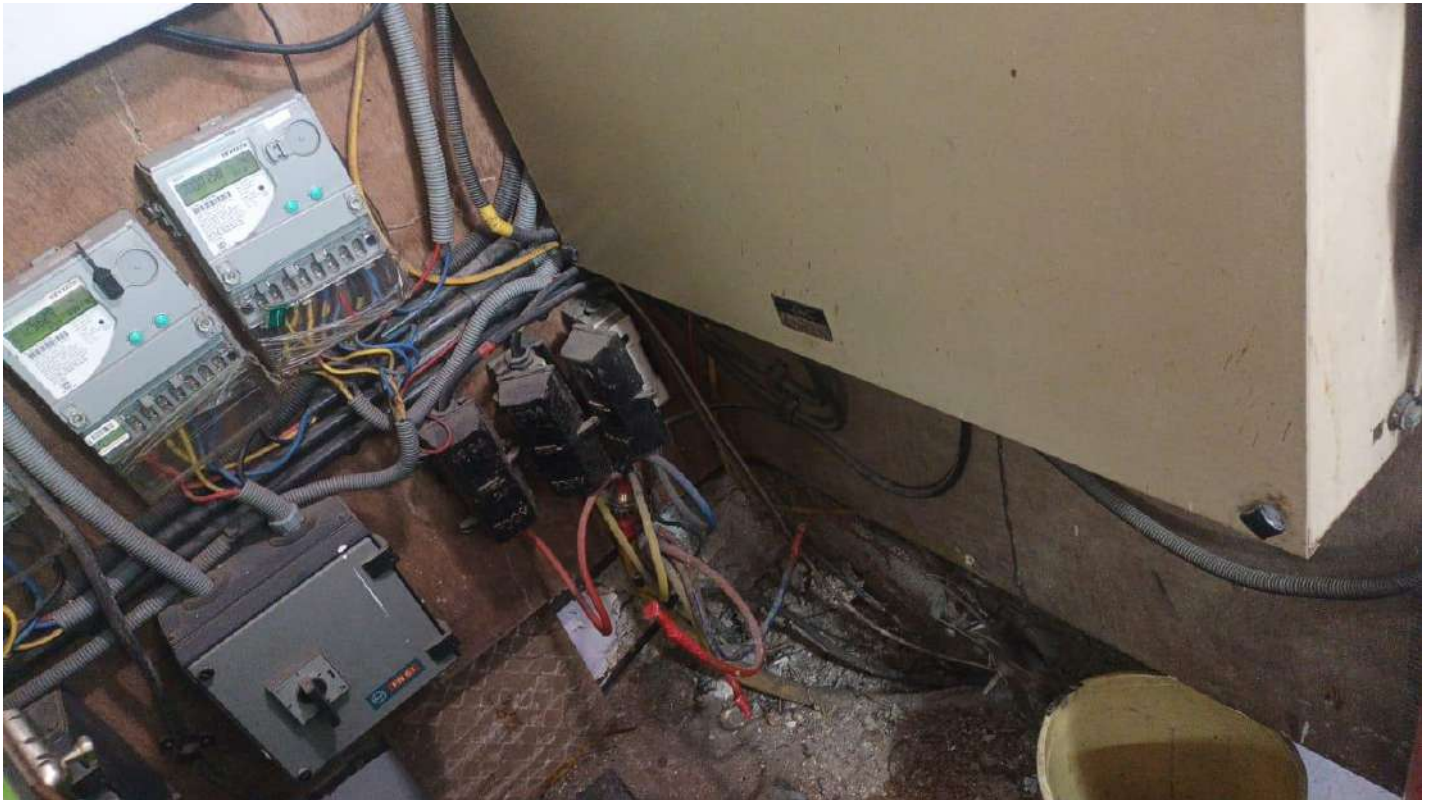
Unwanted material found at near changeover.

Shock treatment charts not displayed in panel room.



Main electric cabin

Kindly get the tag installed for proper identification of cables.
Cables are gland properly at terminations.
cable entry needs to be closed. so that lizard will not enter into LDB.
Need to covered properly.



Main electric cabin

Found unwanted joints.

Cables are laid/ routed in safe manner.

5Kgs, CO2 type fire extinguisher is providing.

Proper earthing is provided too electrical

Cables are gland properly at terminations.

Glanding is not done to cable. Incoming wire openings need to be closed. So that lizard will not enter into panel.

Electrical Insulating mat is not founding on flooring.

Need to covered properly.



Fire extinguisher is updates.

7. General Observations & Recommendations

No's	Particulars	Comment
1	Proper entry/access is provided for electrical room	Yes
2	Proper door (lock arrangement) is provided	Yes
3	Electric room is labeled with "Electric Room" "Danger 440 Volts" "Restricted Entry"	No
4	Electrical Insulating mat is provided on flooring	Yes
5	Proper illumination is provided near distribution boards and main isolation switches	Yes
6	Proper ventilation is provided for electrical panels and switchgears	Yes
7	Space is sufficient to provide proper access to the switchgear for maintenance work	Yes
8	5Kgs, CO2 type fire extinguisher (1 no.) is provided and is within the periodic test life	No
9	Any abnormal overheating of cable, terminations and switchgear	No
10	Switchgears are enclosed from	No
A	Front	Found ok
B	Top cable entry	Gland & cable sport required try required
c	Bottom cable entry	Ok
11	Electrical panels, switchgears and distribution boards are clean and free from dust and moisture.	Yes (Unwanted material)
12	Cables are glanded properly at terminations.	No
13	Cables are laid/ routed in safe manner	Yes
14	Handles are provided to the switchgears and are in good working condition	Yes
15	Proper earthing is provided to electrical installations (panels/switchgears/DBs etc.)	Yes
16	There are no live conductors/ busbars in open condition	No
17	Up to date Single Line Diagram (as laid) is displayed inside the electric room	No
18	Electric supply board cutouts (Fuse Holder of ESCO) are properly enclosed	Yes
19	Electrical feeders are identified with the load they will be operating and marked accordingly.	No
20	Electrical room is maintained clean and no unwanted material is stored in electrical room	No
21	The room has proper roof and there is no possibility for water leakage/seepage.	Found Ok

22	Test reports of electrical installations like earthing test reports are valid and dated.	Yes
----	--	-----

Parameter	Observation	Recommendations	Priority
Personal Protective Equipment's used by Technicians	It is observed that the technicians operated sans Hand Gloves while working on electrical installations	Strongly recommended to provide the technicians with safety gloves even for LT side	1
Tools used by Technicians	Tools and Equipment's are not found	Kindly get the measuring instruments calibrated on a quarterly basis to maintain its accuracy	3

8. GENERAL SUGGESTIONS

Following are the best practices that shall be implemented to achieve better safety standards and enhance

quality of work:

1) **Handover format and follow-up: (refer below Table-1)**

- Kindly maintain the following format for the Handover format which is a standardized format.
- This will help in better handover to the next shift personnel and also maintain a proper record of the issues addressed and actions taken against the same.

2) **Tools storage room: (refer below Figure-1)**

- Tools used by the Facility team i.e. by technicians / supervisors are to be stored in the manner depicted in Figure-1 below.
- Tools need to be protected from damage either physical or atmospheric conditions and hence need to be stored carefully.

3) **Yearly calibration:**

- Calibration of the Energy meters on the main power panels is of utmost importance to ensure that the readings that are being taken are appropriate and accurate.

3.4 GENERAL OBSERVATIONS

Sr. No	Equipment / Item	Observation	Recommended Action	Priority
1	Manual Call Points (MCP)	MCPs are not covered	MCPs needed to be covered by a normal cover to avoid needless tripping leading to havoc conditions.	1
2	PA System	PA system is installed in office area.	Not Found	1
3	Entrance door	Door is enable to open automatic freely when fire alarm device activated during emergency	Kindly ensure the opening of the door in case of fire emergency	1
4	Exit Route Signage	Exit route signage were not installed	Kindly ensure 24x7 illumination of exit route signage to facilitate easy escape in case of emergency	1



Year	Month	Day	2 nd shift Engineer	2 nd shift Technicians	Sr. no.	Time	Location	Details of complainant		Details of complaint	Action taken / Details of Regular activities	Status (Job done/ pending)	Attended by
								Name	Contact Details				

Table-1: Standardized Handover format



Figure-1



Figure-2

4) **Work Permit Format:**

- Kindly follow the following format that indicates a standardized Work Permit Format.

Electrical Work Permit

Date:

WP NO:

Block Ref :
Area :
Details of work :
Work suggested by :
(Company Name)

PRECAUTION OR SPECIFIC REQUIREMENTS					
	Y	N		Y	N
Availability of LOTO procedure			Usage of 3 pin sockets in all Electrical appliances		
Qualified Electricians			Availability of Electrical safety gloves		
No physical damage in wires			Electrical insulation mats in the area of work		
Area of work is free of water			Usage of proper PPEs		
Follow up of earthing practices			Warning Signage		
Usage of insulated tools					

Start Time:

Expected time of completion:

Time of completion:

The safety requirement needs to be followed have been explained to me and I understood the safety requirements. We will follow the same while executing the work.

Signature of person requesting permit

Name:

Date:

The safety requirement should be followed without deviation till completion of the scheduled activity. Any deviation will lead to cancellation of this Permit. This permit is valid for the stipulated period only. Same should be renewed after the stipulated period.

Signature of (respective agency)

Signature of person authorizing the Permit

Name:

Date:

Designation:

9. CONCLUSION

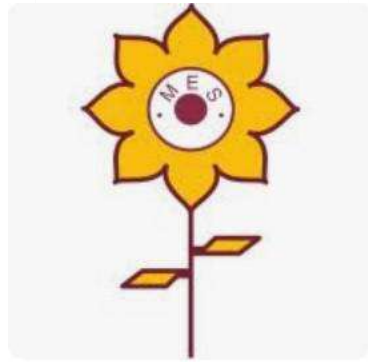
The Electrical Safety Audit carried out, has brought to light a few critical areas that need to be rectified or replaced in order for a safer future.

The observations and recommendations are suggested in a HIGH, MEDIUM and LOW priority of compliance time required.

It is up to the client to implement the recommendations suggested by New RB Energy Consultancy

Electrical safety Audit Report

For



**MAHATMA EDUCATION SOCIETY
CHEMBUR - MUMBAI**

Presented By
RB ENERGY CONSULTANCY



Conducted on – 28 APRIL-2023

ACKNOWLEDGEMENT

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1. INSPECTION IDENTIFICATION

Client Name	MAHATMA EDUCATION SOCIETY
Site Location	MAHATMA EDUCATION SOCIETY, CHEMBUR - MUMBAI
Performed By	New RB Energy Consultancy
Scope of Work	Electrical Safety & Thermography Audit

2. SPECIFICATIONS OF INSTRUMENTS USED

The following equipment's were used to perform this study

Sr. No	Instrument	Make	Range of Instruments
1	Thermal Imager	Testo	Temperature range - 40°C to 500°C
2	Load Manager	Fluke	RMS AC Voltage -230 /415 V RMS AC Current Up to 1000A
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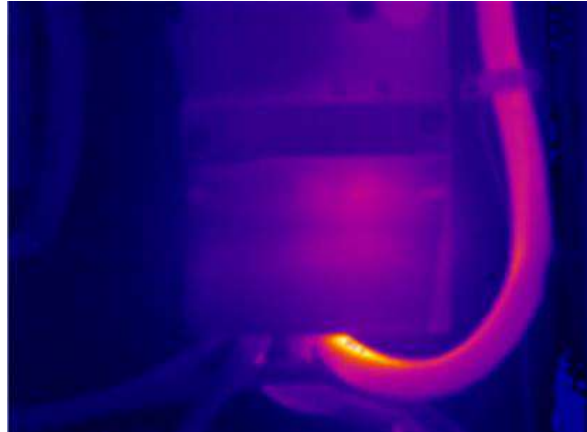
6. Thermography study

Temperatures	Recommendations
Above 70°C	Urgent action should be taken
Between 55°C and 70°C	Corrective action should be undertaken at the earliest occasion
Between 40°C and 55°C	Corrective action should be taken at the next planned maintenance activity
20°C to 40°C	Found okay

Visual Image



Thermal Image



Location	Main Meter
Equipment	Meter
Fault Location	Cable
Area Temperature	26.4

Object Parameters	Value
Image File Name	00206
Emissivity	1
Max Hot Spot Temperature	68.0
Fault Rating	Priority 2

ANALYSIS & OBSERVATIONS

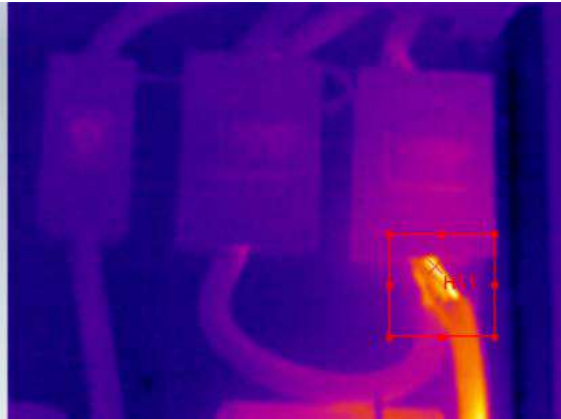
Found hit on main Meter cable.

Image No: - 02

Visual Image



Thermal Image



Location	Electric room
Equipment	Main mccb
Fault Location	Cable
Area Temperature	26.4

Object Parameters	Value
Image File Name	00205
Emissivity	1
Max Hot Spot Temperature	70.8
Fault Rating	Priority 1

ANALYSIS & OBSERVATIONS

Found hit on Mcb cable.

Image No: - 03

Visual Image



Thermal Image



Location	Electric room
Equipment	Main Fuse
Fault Location	R – Phase
Area Temperature	26.4

Object Parameters	Value
Image File Name	00201
Emissivity	1
Max Hot Spot Temperature	57.9
Fault Rating	Priority 2

ANALYSIS & OBSERVATIONS

Found hit on R – Phase
Due to lose connection.


Mahatma Education Society's
Mahatma Night Degree College of Arts and Commerce
Opposite Fire Brigade, Chembur Naka
Chembur Mumbai- 400 071
(NAAC Re-Accredited)

7.1.3 QnM
**Quality audits on environment
and energy regularly undertaken
by the Institution**

(From 2018-19 to 2022-23)
Supporting Documents

Chmeken
PRINCIPAL
Mahatma Education Society's
Mahatma Night Degree College Of Arts & Commerce
Chembur, Mumbai - 400 071.

1. Green Audit/ Environment audit


PRINCIPAL
Mahatma Education Society's
Mahatma Night Degree College Of Arts & Commerce
Chembur, Mumbai - 400 071.



**RB ENERGY
CONSULTANCY**

Kavi Bhagwan Newas, Samta Nagar, Opp. Foot Over Bridge, Near Rly
Station, Palghar (E), 401404, Tal-Dist. Palghar, Maharashtra
E-Mail : info@electricalenergyaudit.com newrb.energy@gmail.com
Contact : 09370777100 08080911944

Date: 10/10/2019

CERTIFICATE

GREEN AUDIT

This is to certify that a detailed Green Audit for Mahatma Education Society's Mahatma Night Degree College of Commerce, Chembur has been conducted for the year 2019-20 to assess the green initiative planning, efforts, activities implemented in the campus like Rainwater harvesting, Solar energy Usage, Swach Bharat Abhiyaan, wastewater management, recycle of waste etc.

The activities and measures carried out by the institute have been verified and found to be satisfactory. The efforts taken by the institute, faculty and students are highly commendable.

Umesh
PRINCIPAL
Mahatma Education Society's
Mahatma Night Degree College Of Arts & Commerce
Chembur, Mumbai - 408 071.

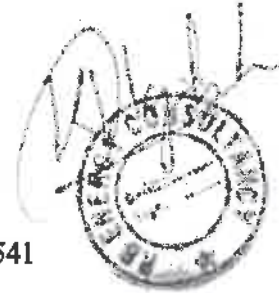
Mr. Umesh Waghela

RB Energy Consultancy

Certified Energy auditor (BEE), EA-7559 Certificate, 4541

Mobile: 09370777100/8080911944

www.electricalenergyaudit.in / info@electricalenergyaudit.in



Kavi Bhagwan Niwas, Samta Nagar, Opp. Foot Over Bridge, Near Rly Station, Palghar(E), 401404, Tal-Dist Palghar, Maharashtra



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E-Mail : info@electricalenergyaudit.com newrb.energy@gmail.com
Contact : 09370777100 08080911944

Date: 14/10/2020

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Chembur
PRINCIPAL
Mahatma Education Society's
Mahatma Night Degree College Of Arts & Commerce
Chembur, Mumbai - 400 071.

Mr. Umesh Waghela

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Contact : 09370777100 08080911944

Date: 21/09/2021

CERTIFICATE

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RB Energy Consultancy

Certified Energy auditor (BEE), EA-7559 Certificate, 4541

Mobile: 09370777100/8080911944

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Date: 08/05/2023

CERTIFICATE

GREEN AUDIT

This is to certify that a detailed Green Audit for Mahatma Education Society's Mahatma Night Degree College of Arts and Commerce, Chembur has been conducted for the year 2022-23 to assess the green initiative planning, efforts, activities implemented in the campus like Rainwater harvesting, Solar energy Usage, Swachh Bharat Abhiyaan, wastewater management, recycle of waste etc.


The activities and measures carried out by the institute have been verified and found to be satisfactory. The efforts taken by the institute, faculty and students are highly commendable.

Amber
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Chembur, Mumbai - 400 071.

Mr. Umesh Waghela
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2. Energy Audit


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Station, Palghar (E). 401404. Tal-Dist. Palghar, Maharashtra
E-Mail : info@electricalenergyaudit.com newrb.energy@gmail.com
Contact : 09370777100 08080911944

Date: 10/10/2019

CERTIFICATE

ENERGY AUDIT

This is to certify that a detailed Energy Audit for Mahatma Education Society's Mahatma Night Degree College of Commerce, Chembur has been conducted for the year 2019-20 to assess energy cost, availability and reliability of supply of energy, energy conservation technologies, and ways to reduce energy consumption

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E-Mail : info@electricalenergyaudit.com / newrb.energy@gmail.com
Contact : 09370777100 / 08080911944

Date: 14/10/2020

CERTIFICATE

ENERGY AUDIT

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Maharashtra

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Station, Palghar (E), 401404, Tal-Dist. Palghar, Maharashtra
E-Mail: info@electricalenergyaudit.com newrb.energy@gmail.com
Contact: 09370777100 / 08080911944

Date: 21/09/2021

CERTIFICATE

ENERGY AUDIT

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www.electricalenergyaudit.com | www.thermalenergyaudit.net

Date: 06/05/2023

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ENERGY AUDIT

This is to certify that a detailed Energy Audit for Mahatma Education Society's Mahatma Night Degree College of Arts and Commerce, Chembur has been conducted for the year 2022-23 to assess energy cost, availability and reliability of supply of energy, energy conservation technologies, and ways to reduce energy consumption.

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Mr. Umesh Waghela
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E-Mail : info@electricalenergyaudit.com / rbenergy@gmail.com
Contact : 09370777100 08080911944

Date: 11/10/2019

CERTIFICATE

ELECTRICAL SAFETY AUDIT

This is to certify that a detailed Electrical Safety Audit for Mahatma Education Society's Mahatma Night Degree College of Commerce, Chembur has been conducted for the year 2019-20 to assess Emergency control procedures, Grounding & earthing, Diesel generator and its availability, Lightning protection system, Emergency power distribution system.

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Mr. Umesh Waghela

RB Energy Consultancy

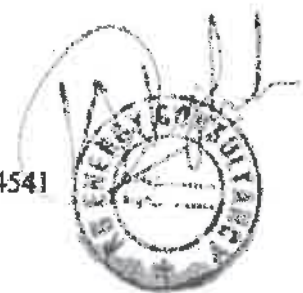
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Contact : 09370777100 08080911944

Date: 15/10/2020

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E-Mail : info@electricalenergyaudit.com newrb.energy@gmail.com
Contact : 09370777100 / 08080911944

Date: 22/09/2021

CERTIFICATE

ELECTRICAL SAFETY AUDIT

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Date: 06/05/2023

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Mobile: 09370777100/8080911944.
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Certificate

This is to certify that

**MAHATMA EDUCATION SOCIETY'S
MAHATMA NIGHT DEGREE COLLEGE OF ARTS
AND COMMERCE**

**S.T. ROAD, OPPOSITE FIRE BRIGADE, CHEMBUR NAKA, CHEMBUR,
MUMBAI- 400071, INDIA**

Has been found in compliance with requirement of

**Quality Management System
ISO 9001:2015**

For The Following Scope:

"PROVIDING EDUCATION FOR UNDER GRADUATE AND POST GRADUATE COMMERCE STUDENTS WITH A VISION OF "EDUCATION TO ALL". THE COLLEGE HAS BEEN CONTRIBUTING TO THE UPLIFTMENT OF THE ACADEMICALLY AND ECONOMICALLY CHALLENGED SECTION OF SOCIETY BY EMPOWERING AND EQUIPPING THE FIRST GENERATION LEARNERS TO BECOME BETTER CITIZENS."

Certificate No	:	QMS/092020/XXX
Original Certificate Date	:	24th - August -2023
Issue Date	:	24th - August -2023
Expiry Date	:	23rd - August -2026

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 Chembur, Mumbai - 400 071.

To check this certificate status visit
<http://euroukals.org.uk/check-certified-org.php>



Ajand Kumar

Authorised Signatory





Certificate

This is to certify that

**MAHATMA EDUCATION SOCIETY'S
MAHATMA NIGHT DEGREE COLLEGE OF ARTS AND
COMMERCE**

**S.T. ROAD, OPPOSITE FIRE BRIGADE, CHEMBUR NAKA, CHEMBUR,
MUMBAI- 400 071, INDIA**

Has been found in compliance with requirement of

**Educational Organization - Management Systems
For Educational Organizations**

ISO 21001:2018

For The Following Scope:

**"PROVIDING EDUCATION FOR UNDER GRADUATE AND POST GRADUATE COMMERCE STUDENTS
WITH A VISION OF "EDUCATION TO ALL".THE COLLEGE HAS BEEN CONTRIBUTING TO THE
UPLIFTMENT OF THE ACADEMICALLY AND ECONOMICALLY CHALLENGED SECTION OF SOCIETY BY
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Certificate No	:	QMS/092020/XXXX
Original Certificate Date	:	24th - August-2023
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(Signature)
PRINCIPAL
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To check this certificate status visit
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(Signature)

Authorised Signatory



4. Beyond the campus environmental promotion activities


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NSS Week Celebration – Event 7 – Peace March Rally and Cleanliness Drive

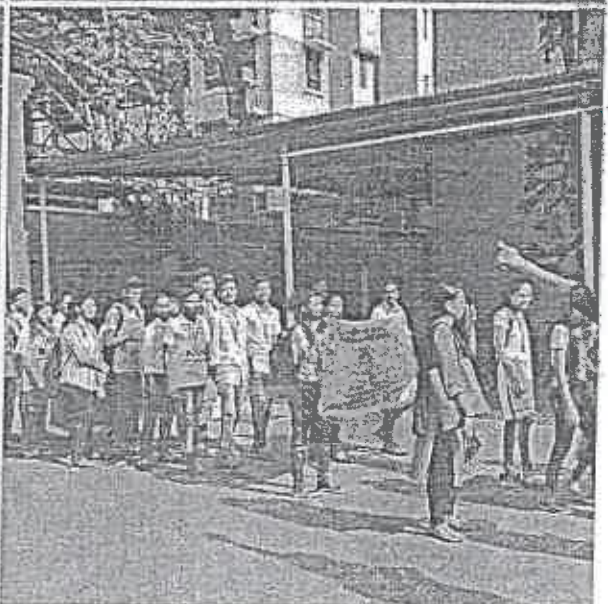
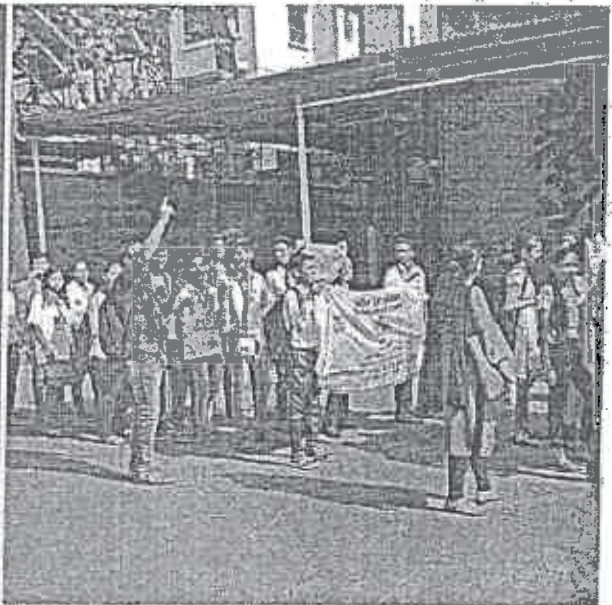
Name of the Event :-	Peace March Rally at Gurukul College of Commerce & Cleanliness Drive at Kalina Campus
Date & Time of the Program :-	2 nd October, 2019 from 7a.m. to 10.a.m
Venue :-	Gurukul College of Commerce, Ghatkopar & Kalina Campus University of Mumbai
No of Participants:-	13 NSS Volunteers
Objective:-	The objective of the program was to celebrate 150 birth anniversary of Mahatma Gandhi.
Brief Report of the Program:-	In order to celebrate 150 birth anniversary of Mahatma Gandhi University of Mumbai organised cleanliness drive at Kalina Campus. NSS Unit of Mahatma Night Degree College sent 3 volunteers to take part in the event. Further, on the same day peace rally was organised by Gurukul College of Commerce. 10 NSS Volunteers along with NSS PO Asst.Prof. Harsh Shukla participated in the peace rally. The rally started at 8 a.m. and covered 2 km area of Ghatkopar. There were 100 NSS volunteers from different colleges in the rally. Students were singing the Bhajan of Raghupati Raghav Raja Ram during the rally. The rally was over at 10 p.m.
No of Beneficiary :-	100 NSS Volunteers.

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Azadi Ka Amrut Mahotsav - NSS Swachh Bharat Abhiyan 13-8-22

Name of the Event :-	Azadi Ka Amrut Mahotsav - NSS Swachh Bharat Abhiyan 13-8-22
Organized by:	The NSS Unit of Mahatma Night Degree College of Arts and Commerce, Chembur, Mumbai
Objective of the session	Celebrating Azadi Ka Amrit Mahotsav by collecting plastic dry waste from the streets of Mumbai- NSS Swachh Bharat Abhiyan
Date & Time of the Program:-	Saturday 13th August, 2022 from 4.00pm to 6.30pm
Participants	MNDC NSS volunteers of F.Y.B.Com. S.Y.B.Com and T.Y.B.Com., Non- NSS students of the college, Junior College students of the college.
No of Participants:-	155 students participated in the event. 65 boys and 90 girls
Brief Report of the Program:-	<p>NSS volunteers, students of the degree college, and students of the Junior college gathered in front of the college building at 3.30pm on 13th August, 2022. The NSS Rally was combined with the Swachh Bharat Abhiyan. The NSS Leaders had carried with them gloves and bin bags to collect dry waste, plastic waste from the streets of Chembur Mumbai.</p> <p>While at the rally, a group of NSS volunteers engaged in the Swachh Bharat Abhiyan. Groups of students took turns to pick up plastic waste using gloves.</p> <p>The rally started from Sion Trombay Road, moved into Thakkar Bappa Colony and through Siddharth Colony and back to Chembur Naka. While walking in the rally the students picked up dry waste from Sion Trombay Road, Thakkar Bappa Colony and Siddharth colony.</p> <p>The students completed the rally and assembled at the ground floor multipurpose hall. The dry waste collected was disposed of in the college campus dust bin. The Swachh Bharat Abhiyan was successfully conducted.</p>

No. of Beneficiary :-	155 students participating in the NSS Swachh Bharat Abhiyan benefited from this event.
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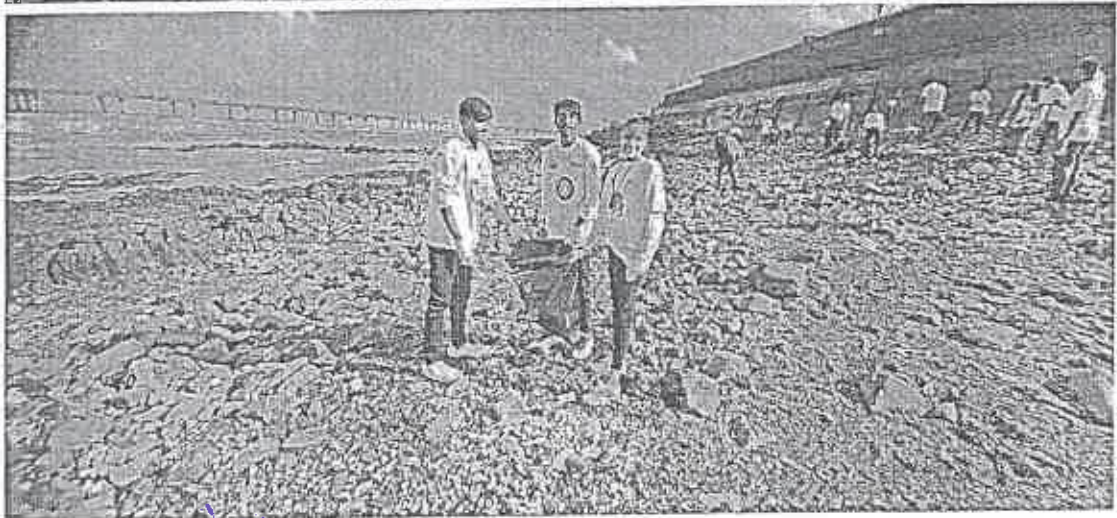
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**Report - NSS Beach Cleaning - Worli Patti on 17th September, 2022.
A Nation-wide Coastal CleanUp Drive
Swachh Sagar, Surakshit Sagar**

Name of the Event -:	SS Beach Cleaning - Worli Patti on 17th September, 2022. A Nation-wide Coastal CleanUp Drive- Swachh Sagar, Surakshit Sagar
Organized by:	The NSS Unit of Mahatma Night Degree College of Arts and Commerce, Chembur, Mumbai 71, joined My Green Society and other NSS Units of colleges in Mumbai on 17th September, 2022 at Worli beach (Worli patti) for the mega nation initiative of coastline cleaning. Swachh Sagar, Surakshit Sagar
Objective of the session	To clean the coastline, Worli Patti and join in the world initiative to clean the coastline.
Date & Time of the Program-:	17th September, 2022 Time: 7.00am - 9.00am
Venue -:	Worli beach
No of Participants-:	22 NSS volunteers, 7 girls and 15 boys
NGO partnering for the project	My Green Society
Brief Report of the Program-:	<p>The NSS unit of the college partnered with My Green Society and other NSS Units of colleges in Mumbai to participate in a Beach Cleaning Project at Worli Beach - Worli Patti, the section allotted to us for cleaning of the coastline. This project is a nation-wide initiative where citizens have come together and taken the responsibility to clean their sections of the coastline. This is a part of the Swachh Sagar, Surakshit Sagar initiative.</p> <p>20</p> <p>PRINCIPAL Mahatma Education Society's Mahatma Night Degree College Of Arts & Commerce Chembur, Mumbai - 400 071.</p> <p>TYB.Com student Rahul Sukhdev led a team of 22 MNDC NSS volunteers to participate in the Beach Cleaning Project on 17th September, 2022.</p> <p>Volunteers reported to the venue at 7.00am to the Worli Beach and collected plastic waste and other waste from 7.00am to 9.00am. They wore gloves and deposited the waste in bin bags. The waste collected by the NSS</p>


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	<p>volunteers was weighed. 261 kilograms of waste was collected. The organizers commanded the volunteers for their efforts. Refreshments were served to all the volunteers at the end of the project.</p> <p>An online form was filled up by the participants and all the participants received certificates for their participation in the Beach Cleaning Project.</p>
<p>Quantity of Plastic waste and other waste collected in Kilograms:</p>	<p>261 Kgs of waste was collected.</p>



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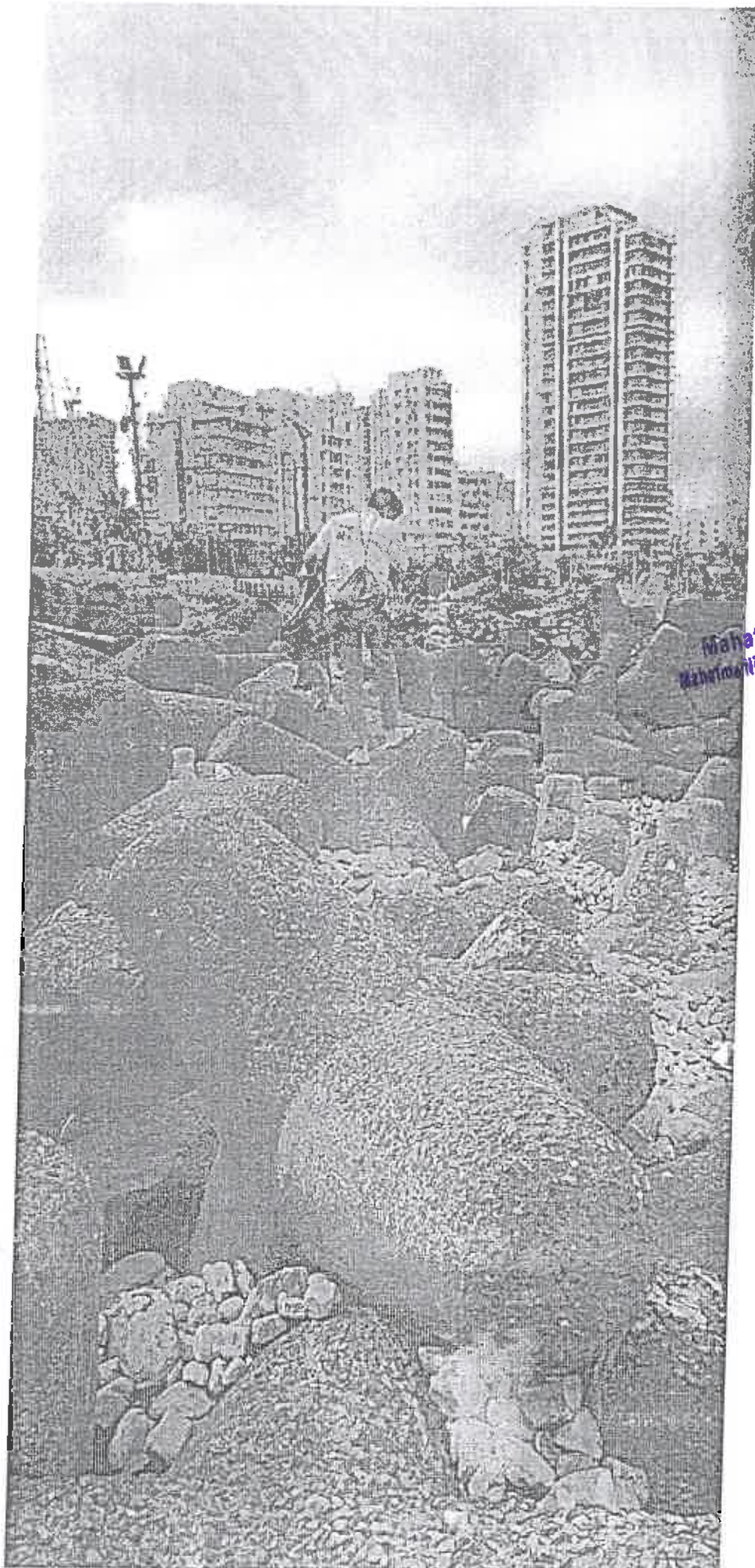


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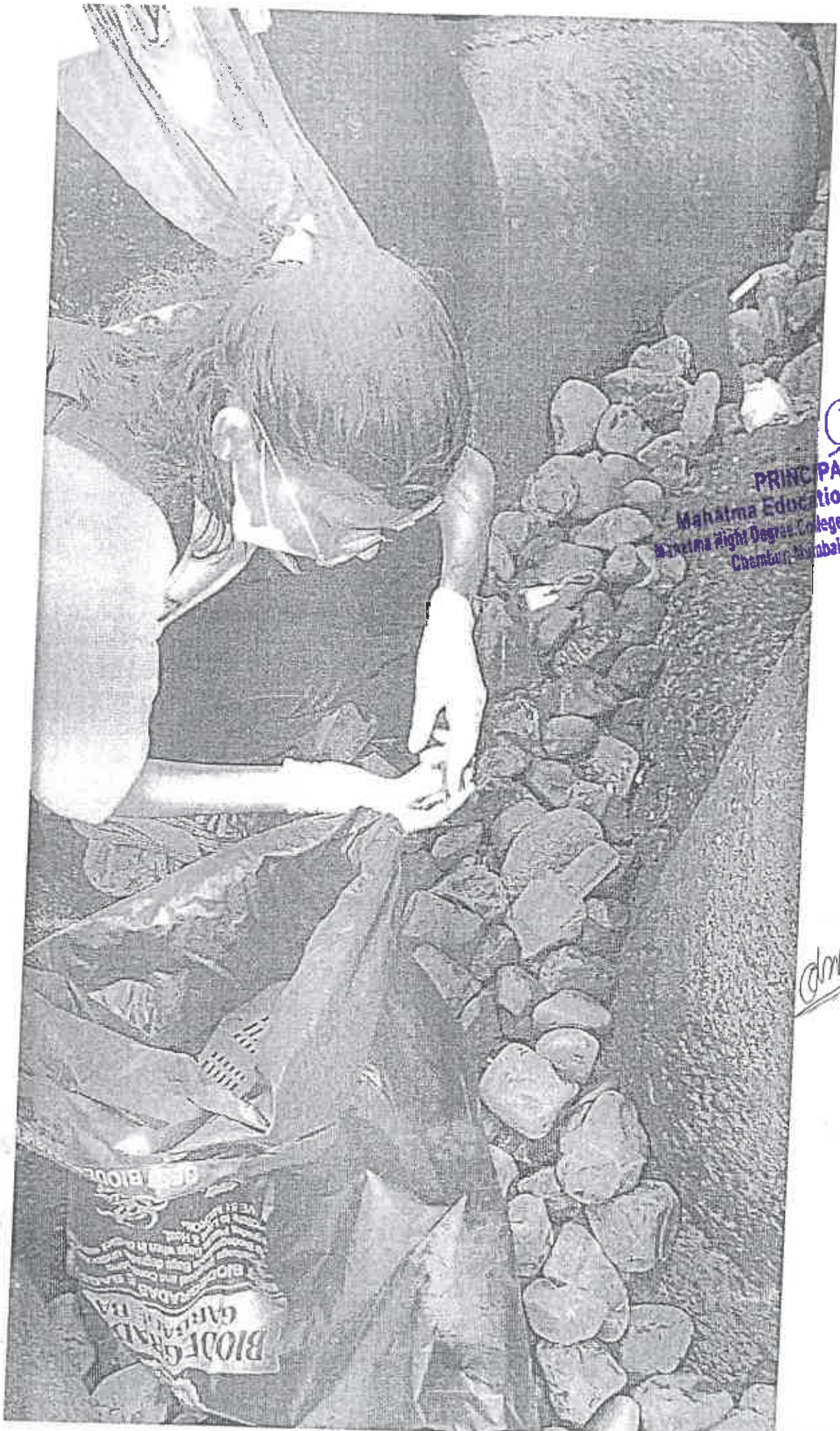


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Mahatma Education Society's
Mahatma High Degree College of Arts & Commerce
Chembur, Mumbai - 400 071

NSS Tree Plantation Project on 23rd July, 2022

Name of the Event -:	NSS Tree Plantation Project on 23rd July, 2022
Organized by:	The NSS Unit of Mahatma Night Degree College of Arts and Commerce, Chembur, Mumbai
Objective of the session	Tree Plantation - To plant trees and help save the environment
Date & Time of the Program-:	Saturday 23rd July, 2022 from 6.30am to 6.30pm
Participants	MNDC NSS volunteers of S.Y.B.Com and T.Y.B.Com, Non- NSS students of the college and 2 Programme Officers
No of Participants-:	52 students.(29 boys and 23 females)
Partnered with :	Ms. Freya Palia, Our Town Premium Villa Property Developers, Khardi, Thane
Brief Report of the Program-:	<p>52 NSS Volunteers, 29 boys and 23 girls with 2 Programme Officers Asst. Prof. Tushar Pawar and Assoc. Prof. Dr. Lata Krishnan took the 7.15 am train from Kurla to reach Khardi, at 9.15am. The team of students entered the premises of Our Town and reached the reception area. After Tea and breakfast the team walked to the location designated for tree plantation. 50 plants were distributed to the students. Neem, Gulmohar, Badam, Temple Tree, Rain Tree, Eucalyptus and Bamboo saplings were distributed to students. Two teams were made and the tree plantation took place parallelly in two areas. One team was monitored by NSS Programme Officer Asst. Prof. Tushar Pawar and the other team was monitored by NSS Programme Officer Assoc. Prof. Dr. Lata Krishnan. Gardner Mr. Sadhu and Manager Mr. Bhagwan facilitated the tree plantation activity. 50 trees were donated by Ms. Freya Palia of Our Town, Khardi. The trees will be nurtured and taken care of by the gardeners of Our Town. Tree plantation photographs were taken with the NSS Banner and College banner.</p> <p>After the tree plantation activity the volunteers assembled to thank the hosts, manager Mr. Bhagwan, gardener Mr. Sadhu, kitchen staff and Ms. Freya Palia for their contribution and support to the NSS Tree Plantation</p>

Page 1 of 4

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	<p>Project. Students returned to Chembur at 6.30pm. The NSS Tree Plantation project was a grand success.</p>
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<p>No. of Beneficiary :-</p>	<p>462</p>
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“Tree Plantation”

Name of the Event :-	“Tree Plantation”
Date & Time of the Program:-	20 th July 2021
Venue :-	Thakkar Bappa Garden
No of Participants:-	10
Objective:-	<ul style="list-style-type: none"> • To beautify our life • To save the endangered environment
Brief Report of the Program:-	<p>NSS unit of Mahatma Night Degree College conducted sapling plantation drive on 20th July, 2021 in Takkar Bappa Garden, Chembur. Planting the saplings in the Thakkar Bappa Garden was planned due to Covid 19 problem. Social distance was maintained while doing this activity. The NSS unit of our college decided to plant sampling in the vicinity of volunteer’s residence to prevent crowd and follow Covid guidelines. The purpose of this activity was to make sure that saplings must survive and become huge tree in the open environment. Around 10 volunteers including NSS leaders were present for this activity. Volunteers bought 10 saplings from nursery and planted in the identified area. We selected the spots where saplings should be planted. Volunteers started digging at selected spot. Even during the rains volunteers did not stop the work. We took 3 hours to plant all the saplings. Volunteers also gave support of the stick and made boundaries around the saplings. This activity was carried out by the volunteers by following Covid 19 guidelines issued by government.</p>
No of Beneficiary :-	200-300 resident






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Tree Plantation Report

NSS Unit of Mahatma Night Degree College conducted Tree Plantation Drive at Franav Farms, Apta Phata, Rasayani on 18th July, 2019. Lions Club of Deonar, sponsored 25 saplings which included Neem, Jamun and other plant varieties. These samplings where brought from Juhu on 16th of July. Further, Dr. Lata Krishnan requested Mr. Rajesh Pillai from Panvel campus to transport it to Franav Farms in Mahatma Education Society's School Bus which can reduce transport cost. Mr. Rajesh Pillai supported for the noble cause and helped us to transport the tree sappling to Franav Farms on 17th of July, 2019. Mr. Padmakshan who look after the activities at Franav Farms supported us by ensuring all the equipment required for sapling plantation will be provided at the farm. NSS Program Officer Asst. Prof. Harsh Shukla along with 20 NSS Volunteers visited the Franav Farm at 1pm on 18th July. The care taker of Franav Farms Upendra greeted us. NSS Volunteers drank water and after that Upendra gave the volunteers all the necessary equipment for sapling plantation. Mr. Upendra showed us the places earmarked for sapling plantation. NSS volunteers were happily engaged in the activity. They said that it gave them an immense satisfaction that they were planting tree saplings for the first time in their life. There was a tea break for 5 minutes at 3pm. The activity completed at 4.30 pm. After freshen up we left the for Chembur at 5pm. Mr. Upendra promised us that he will take care of the saplings. This was one of the main objective of our NSS unit that we make sure that plant must survive after tree plantation activity and therefore the activity was conducted at Franav Farms.


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“Spreading Awareness about Eco-Friendly Ganapati Festival”

Name of the Event -:	“Spreading Awareness about Eco-Friendly Ganapati Festival”
Date & Time of the Program-:	9 th September 2021
Venue -:	Zoom Platform
No of Participants-:	70
Objective-:	<ul style="list-style-type: none"> To create awareness about Eco-Friendly Celebration of Ganapati Festival
Brief Report of the Program-:	<p>NSS unit and Department of Environmental Studies of Mahatma Night Degree College has arranged webinar on “spreading Awareness about Eco-Friendly Ganapati Festival” on 9th September, 2021 at 7.00pm to 8.00pm on Zoom platform. Asst. Prof. Tushar Pawar started webinar with Keynote address, where he explained about available of eco-friendly activity and why it is required to adopt eco-friendly culture. After keynote address Asst. Prof. Tushar Pawar invited I/C Principal Dr. Eknath Zhrekar to welcome the gathering. Principal Zhrekar has welcomed resource person Mr. Tushar Gosavi and all the participants. In his welcome address he also spoke about the importance of Eco-friendly Ganapati idol and it also help to keep beauty of nature. He has also mentioned that why there is need to conduct such webinars and seminars on Eco-friendly culture.</p> <p>After the welcome address Asst. Prof. Tushar Pawar introduced resource person Mr. Tushar Gosavi and requested him to start the session</p> <p>Mr. Gosavi started his session by demonstrating video on how they make eco-friendly Ganapati idols. He also explains why we need to about this practice and encourage people in society take such idol for Ganapati pooja so that we can disturbed our natural aquatic ecosystem. He also shown some eco friendly Ganapati idols and windup his session with very interesting thought. Asst. Prof. proposed vote of thanks and assure resource person that our students will spread the awareness about ecofriendly celebration of Ganapati festival.</p>
No of Beneficiary -:	70

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NSS Unit and Department of Environmental Studies

Organises

An Online Workshop on

**"Spreading Awareness about
Eco-Friendly Ganapati Festival"**

By



Mr. Tushar Gosavi

Journalist in TV9 News Channel

On

Thursday, 9th September, 2021

Time:- 7.00 p.m. to 8.00 p.m.

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Organising Team

Dr. Eknath Zhrekar
I/C Principal

Asst. Prof. Tushar
Convener and NSS Programme Officer

Asso. Prof. Dr. Lata Krishnan
NSS Programme Officer

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SEVEN DAYS SPECIAL RESIDENTIAL CAMP 2018-19 FROM 19TH TO 25TH JANUARY, 2019

NSS Unit of Mahatma Night Degree College organized its Seven Days Special Residential Camp at Mulgaon Village, Badlapur. This was the third year of our camp in this village. In the first year we had undertaken the work of School Walls Painting. In the second year, we had undertaken a major project of Toilet Block Construction in the school premises. This was a third year of NSS camp in the Mulgao village and we had undertaken the work of school wall painting and construction of compost pit in the backyard of the school. Further 'Swatch Bharat' mission program was conducted in the village.



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Day 1: 19th January

We started at 9 p.m. with 100 NSS Volunteers and NSS Program Officers Asst. Prof. Harsh Shukla, Asst. Prof. Tushar Pawar and Asst. Prof. Anaya Markandeya from the college as our Principal Dr. Radma Rangan waved the flag for our departure. First instructions were given to the students about dos and don'ts in the campsite. We auspiciously brook the coconut before our departure in front of the bus. Then we left for our camp site. It took 2 hours to reach the camp site. Students were instructed to bring the Tiffin for afternoon lunch. After reaching the campsite students were allotted their respective rooms. Some students were sent to bring kitchen utensils and other stuff for kitchen. In the meanwhile Kitchen grocery also came from the Patel R Mart Badlapur. After the lunch, we divided the students into different six committees. Instructions were given about their committee work. Day 1 was full of adjustment with the campsite and we spent time to understand the premises and work challenges. After dinner at 9 p.m., post dinner briefing was done and everybody slept at 10.30 p.m.

Day 2: 20th January

Every one woke up at 5 a.m. in the morning. After the headcount and prayers, they were given 1 hour to fresh up. At 6.30 a.m. everyone gathered for morning exercise except the kitchen committee. The task of the kitchen committee was to make arrangement for the tea and breakfast. Boys were asked to go to the village ground for running while girls did the warm up in the school premises. After warm up and exercise, tea and breakfast was served to the students. Subsequently, groups were made and they were sent to different places for Swatchh Bharat Abhiyan. In the meanwhile the Kitchen committee was busy in their work. A Separate School Wall Painting Committee was made, Rest of the group did the 'shramdaan' and came back at 12 noon. After the shramdaan they

went for bath and lunch was served at 1 p.m. After lunch afternoon session was taken by NSS PO Tushar Pawar. Then students were given time for their street play and entertainment preparation. At 5 p.m. tea was served. 8 p.m. dinner was served. After dinner street play and entertainment committee showed their performance. At the end of the review meeting report writing committee gave the report for the 1st day.

Day 3: 21st January

Every one woke up at 5 a.m. After prayers and freshen up program students went for warm up and exercise. After that tea and breakfast was served. A Select group of students who were not in Wall Painting Committee and Kitchen Committee visited Adhar Institute of Differently abled children. In the afternoon after shramdhan students went for bath which was followed by the lunch. 2 hours were given to the students for street play and entertainment preparation work. In the evening children went to Khandoba Festival Dinner Program and after dinner they also cleaned the premises. Review meeting was kept at 9 p.m. After the review meeting, street play, the entertainment committee performed their plays. Report writing committee gave their report. 10.30 everyone went to bed.

Day 4: 22nd January

Usual routine remained as it is. Post breakfast student went for the 'shramdhaan' and compost pit committee started their work. In the afternoon resource person on entrepreneurial development came for his session. He took the session for two hours. He explained the different avenues available for students in the entrepreneurial world. Dr. Lata Krishnan joined the camp on this day. After the session tea was served. Students prepared their street plays and acts. In the evening kabbadi match was played between first year and third year boys. In the post dinner session was done and everyone slept at 10.30 p.m.

Day 5: Day begin with 5 am morning prayers followed by exercise and yoga. A friendly match of 4 over's played in the village ground. In the post breakfast session students cleaned the school premises and school wall painting work was started. Group was formed to write swatchhta slogans on the walls. Accordingly colors were brought for the same. Compost Pit work went on as it is. In the afternoon lunch was served to the students. In the afternoon students were sat for another session on physical disability. In the evening students played dumbsharads game along with teachers. Dinner was served at 8.30 p.m. post dinner session was held and everyone went for sleep at 11 p.m.

Day 6: In the morning everyone woke up at 5 a.m. In the post break fast session students went for shramdaan and compost pit and school wall painting committee completed their work today. Post lunch session students were given little break for one hour and at 3.30 Principal Dr. Padma Rangan visited the camp site. School children performed lechim in front of our principal. Principal Madam observed the camp progress. Dinner was served at 8 p.m. After post dinner session we went for sleep at 10.30 p.m.

Day 7: We woke up at 5 a.m. Select group of students along with Asst. Prof. Harsh Shukla visited Khanderaya Temple on the hill. A group of student in the NSS dress code went to village along with Dr. Lata Krishnan. They distributed chocolates to the villagers and asked them to keep the village neat and clean. After the lunch valedictory function was started. Students were given prizes for their effective work. At 3 p.m. we bid adieu to everyone and left for Chembur.

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Bhajan Sandhya

Thirty NSS volunteers of Mahatma Night Degree College of Arts and Commerce, Chembur, along with NSS program officer, Asst. Prof. Harsh Shukla attended the Bhajan Sandhya Program at Gate Way of India on the occasion of the 150th Gandhi Jayanti on Tuesday, 2nd October, 2018. Volunteers were singing the Raghupati Raghav Raja Ram Bhajan while going to Gate Way of India. The program of Bhajan Sandhya started at 5 p.m. Department of Music of University of Mumbai hosted the program and outstanding bhajans and songs were sung by the music department students. Approximately 5,000 NSS volunteers from all over and outside Mumbai gathered for the event. After the Bhajan Sandhya program students had a refreshment and left for home.



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Tree Plantation

Date: 14th July, 2018

Venue: Adopted Village Mulgao near Badlapur City

NSS unit of Mahatma Night Degree College conducted sapling plantation drive on 14th July, 2018 at adopted village Mulgao near Badlapur city. Planting the saplings in the adopted village was planned in the last year during seven days NSS residential camps. The purpose of this activity was to make sure that saplings must survive and become large trees in the open village environment. NSS PO Harsh Shukla along with 10 volunteers brought 10 saplings from forest department nursery with the help of Ex-Sarpanch of Mulgao Shree Hanumant Bhoir. We selected the spots where saplings should be planted. Volunteers started digging at selected spot. Even during the rains volunteers did not stop the work. We took 3 hours to plant all the saplings. Volunteers also gave support of the stick and made boundaries around the saplings. We requested the villagers to take care of the plants. In the evening after taking some snacks we returned.



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