



Jai Hind Sindhu Education Trust's
MANGHANMAL UDHARAM COLLEGE OF COMMERCE

PIMPRI, PUNE - 411 017.

(Affiliated to Savitribai Phule Pune University, Pune)

NAAC Reaccredited 'B++'
☎ : 9028004422

Dr. Vinita Basantani (M.A., Ph.D.)
Principal

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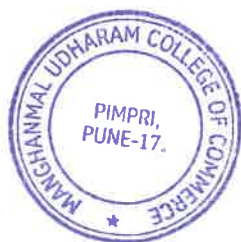
Date :

CRITERION 7	
KEY INDICATOR	7.1 Institutional Values and Social Responsibilities
METRIC No.	7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

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

Green Initiatives	
Out of Campus During Last Five Years	
Year	Appreciations/Activities
2016-2017	Energy Audit
2016-2017	Green Audit
2021-2022	Environmental Audit
2021-2022	Green Audit
2018-2019	Haritwari Abhiyaan
2017-2018	Tree Plantation under BSD
2018-2019	Tree Plantation under BSD
2018-2019	Paperbag making Workshop under NSS
2018-2019	Distribution of Clotbag and Paperbags under NSS
2018-2019	Tree Plantation under EVS
2018-2019	Ganpati Idol Making Workshop under NSS
2018-2019	Helping during Ganpati Visarjan at artificial pond
2018-2019	Malin Disaster and Nirmalwari
2018-2019	Raksha Bandhan under NSS
2019-2020	Visit to Kurupp Industries
2019-2020	Guest Lecture on Butterfly Conservation
2019-2020	Study Tour under EVS: River walk Ramnadi and Visit to Central Bee Research Institute
2019-2020	Cleanliness Drive at Sinhagad under NSS
2021-2022	Guest Lecture on Butterfly Conservation
2021-2022	Special Winter Camp under NSS
2021-2022	Pandharpur Wari: Wrappers and plastic bottles collected
	Appreciation for Sanitation and Hygiene, Waste Management, Water Management, Energy Management and Greenery



Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.



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Certificate

This is to certify that
Manghanmal Udharam College of Commerce,
Pimpri has completed its **Energy Audit**
on May 05, 2017.

Prashant Shinde

Prashant Shinde

Director



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Certificate

This is to certify that

*JHSE Trust's
Manghanmal Udharan
College of Commerce,
Pune*

has successfully undergone Environmental
Audit for the year 2021-2022 by Greenex
Environmental, Pune.

Place: Pune

Date: 11.02.2022



Arati Bhosale
EMS Lead Auditor
Greenex Environmental



Baw
Principal

Certificate

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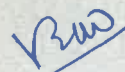
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**Arati Bhosale
EMS Lead Auditor
Greenex Environmental**



Principal

**M. U. College of Commerce
Pimpri, PUNE - 411 017**



Environmental & Green Audit Report 2020-2021



Jai Hind Sindhu Education Trust's
Manghanmal Udharam College of Commerce, Pimpri,
Pune

By
GREENEX ENVIRONMENTAL
T-71,- 1A/2, Telco Road, General Block, Near Indrayani Corner, above Kotak
Mahindra bank, MIDC, Bhosari, Pune – 411026

Acknowledgement

We would like to express our sincere gratitude towards all who made it possible for us to complete the Green Audit of Manghanmal Udharam College of Commerce, Pimpri, Pune smoothly. We would like to extend our gratitude to Ms. Poonam Kishinchandani, Member, College Management Committee and Prin. Dr. Vinita Basantani for offering us the opportunity to perform Green Audit of the College. We would also like to thank Ms. Sujata Deshmukh and Mr. Mangesh Argade for making time and assisting us throughout the audit.

We would like to thank each and every staff member at the college who helped us collect the resourceful data. Last but not the least; we thank our team for their unwavering support.

- Greenex Environmental

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1.0 Introduction

1.1 Manghanmal Udharam College of Commerce, Pune

M. U. College of Commerce, Pimpri was established by Jai Hind Sindhu Education Trust, Pimpri, Pune, in 1983. The college was established as a single faculty commerce college and acquired a Permanent Affiliation status from the University of Pune in the year 1994 and was given a Permanent Registration Number ID: PU/PN/C/045/[1983]. The college enjoys Sindhi Linguistic Minority status since its inception.

Mrs. Kaushalya Sangtani was the chairperson of the trust since its inception, followed by Mrs. Savita Jagtiani. Now the President Mrs. Nalini Gera is guiding the Trust and steering the college to the new heights. Late Mr. Atur Sangtani a doyen of construction industry, philanthropist and well-known social worker was the source of inspiration.

M. U. College offers undergraduate and postgraduate courses namely, B. Com, BBA, BBA (CA) and M. Com through English medium. These courses are housed in one building and spread over a total area of 1726.78 SQ.M with a built-up area of 1937.95 SQM.

M. U. College is located at Pimpri with the fast developing suburbs of Pimpri - Chinchwad, as surrounding areas with IT Parks and residential areas. The proximity with the Old Mumbai - Pune highway provides good connectivity to Pune. It is a matter of great pride that the college has made big strides within a short span.

The team at MUCC has framed a comprehensive policy to promote a research culture in the College. The focus is on skilling students towards research orientation by holding workshops, motivating them to participate in University level competitions, publishing in-house magazine compiling their teacher guided research papers, organizing in-house research competitions & assignments with a research related focus. The teachers too, are motivated to undertake continuous research by writing books, publishing papers and holding conferences.

The College has a well-equipped library with Reference Books, e-journals, magazines, text books and INFLIBNET software. There is also an online subscription of N List where many journals are available to facilitate an atmosphere of research. The College also has a tie up with libraries like Jayakar Library of SPPU, Library of Gokhale Institute of Political Science and Economics (Deemed University). Teachers are provided duty leave to visit the same for their research work.



Figure 1: MU College

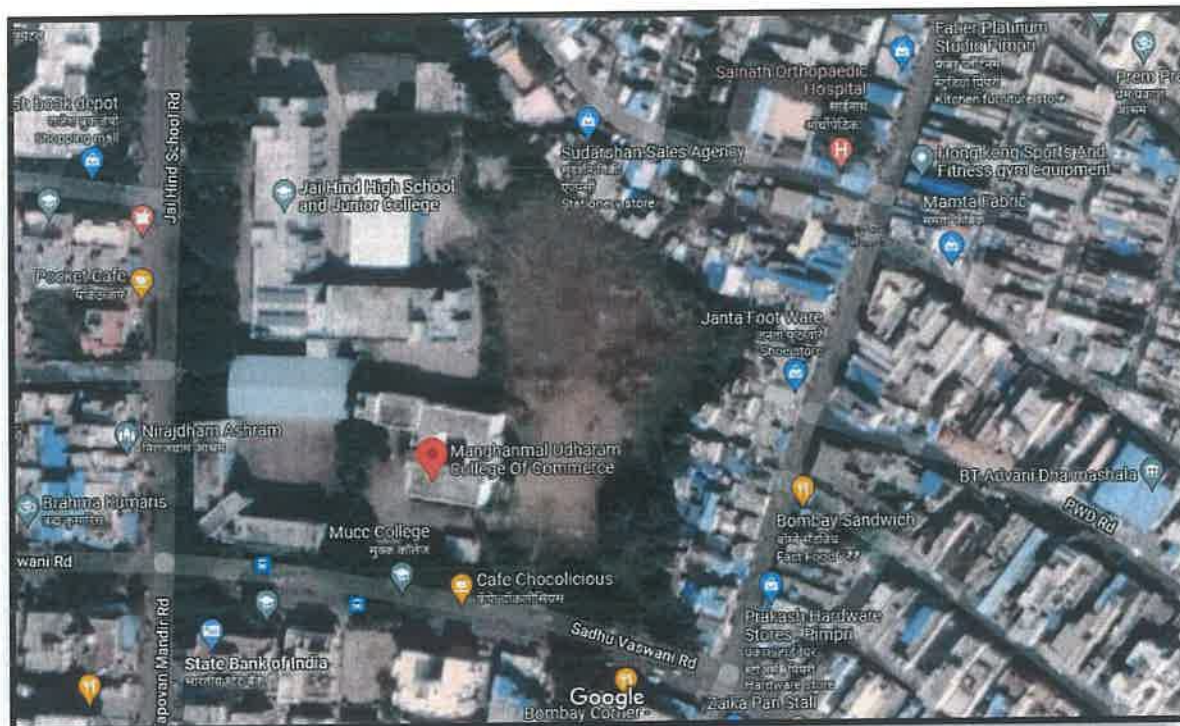


Figure 2: Satellite image of MU College, Pune

1.2 Infrastructure

The College building is well-spaced and well-constructed to provide proper illumination and ventilation. The college has a courtyard which consists of various plants. The building within the campus consists of 28 rooms for around 1694 students and 41 staff members. 41 staff members include 21 teaching staff members and 20 non-teaching staff members.

The M. U. College, Pune campus is based in scenic environs and has plantation around the building. There is a computer lab with the capacity of around 60 computers and 2 servers, fully equipped classrooms, seminar hall, library, gymkhana and department of physical education & sports, medical room and canteen.

Area	Sq.m.
Campus Area	1726.78
Built up Area	1937.95



Figure 4: Library



Figure 5: Classroom



Figure 6: Computer Lab



Figure 7: Canteen



Figure 8: Courtyard



Figure 9: Common room and first aid facility

1.3 Vision and Mission of the College

Vision

To become a center of excellence in commerce and management and entrepreneurship aimed at generating knowledge.

Mission

Creating intellectually and morally endowed global citizens by providing quality education to the students of all strata of society.

Goals of the institution

- To support a liberal and progressive outlook among students and teachers.
- To create a learning environment to equip students to succeed in the competitive world.
- To provide employment opportunities through collaboration with Industry.
- To promote the holistic development of students and teachers and encourage social outreach.

- The continuous internal evaluation (CIE) regulations are governed by the principles of the MUCC Assessment and Learning Policy. The policy encompasses the following principles: 1. Effective learning is an outcome of evaluation process. 2. Feedback is a core component of assessment 3. Assessment will be considered at the program level 4. Assessment will be fair, ethical and learner-centered.
- Teaching work distribution should be done as per the norms of UGC. The entire workload of the department for the semester is as prescribed by the University
- The function of continuous assessment is to facilitate student learning by reinforcing and expanding students' learning.
- Academic teaching, Industrial visits, co-curricular activities, are an important aspect in knowledge building of the students. Students can learn practical aspects from industry experts.
- In order to inculcate and develop a research culture, the College undertakes special workshops for its students and teachers regularly in areas of Research Methodology.
- The overall purpose is to create a quality working environment in the College for students, teaching and nonteaching staff members and all stakeholders.
- The College focuses on student centric teaching-learning.
- To provide facilities and support to the staff to take up innovative methods of teaching in accordance with the developments in the academic world.
- To transform the 'Student' into "Knowledge Professional" empowered with scientific intellect, entrepreneurial skills, and innovation, who have learnt their skills in a highly competent environment under the guidance of research oriented and skilled Professors.
- To create an ambience for learning and scholarship.
- To become a renowned Centre of Excellence in teaching - learning, research and extension activities, beneficial to the current and forth coming generations.

2.0 Environmental and Green Audit – A Preview

2.1 Environmental Audit

An environmental audit is a type of evaluation intended to identify environmental compliance and management system implementation gaps, along with related corrective actions. In this way, environmental audit performs an analogous (similar) function to financial audit. There are generally two different types of environmental audits: compliance audits and management systems audits. ISO 14001 is a voluntary international standard for environmental management systems ("EMS"). ISO 14001:2004 provides the requirements for an EMS and ISO 14004 gives general EMS guideline.

The Supreme Audit Institution (SAI) in India is headed by the Comptroller and Auditor General (CAG) of India which is a constitutional authority. The audit conducted by CAG is broadly classified into Financial, Compliance and Performance Audit. Environmental audit by SAI India is conducted within the broad framework of compliance and performance audit.

Environmental auditing is a systematic, documented, periodic and objective process in assessing an organization's activities and services in relation to:

- Assessing compliance with relevant statutory and internal requirements.
- Facilitating management control of environmental practices.
- Promoting good environmental management.
- Maintaining credibility with the public.
- Raising staff awareness and enforcing commitment to departmental environmental policy.
- Exploring improvement opportunities.
- Establishing the performance baseline for developing an Environmental Management System (EMS).



Figure 9: Aspects of Environmental Audit



Figure 10: Green Campus Illustration

2.2 Green Audit

Green Audit is a part of Environmental Audit. Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments. It aims at analyzing environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience.

Green audit can be a useful tool for an academic institution to determine how and where the institution is using the energy or water or resources more than requirements. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students a better understanding of green impact on campus. Thus, it is imperative that the institute evaluates its own contributions towards a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation and for the world, the role of higher educational institutions in relation to environmental sustainability is more significant.

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background, it becomes essential to adopt the system of the Green Campus for the institutes which will lead towards sustainable development and at the same time reduce a sizable amount of atmospheric carbon-di-oxide from the environment. Thus, it is the responsibility of the Higher Educational Institutions to ensure that there is reduction of global warming through Carbon Footprint reduction measures.

Therefore, the purpose of the green audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

3.0 Objectives of Green audit

The overall objectives of green auditing are to help safeguard the environment and minimize risks to human health. The key objectives of an environmental audit therefore are:

- To determine how well the environmental management systems and equipment are performing
- To verify compliance with the relevant national, local or other laws and regulations
- To minimize human exposure to risks from environmental, health and safety problems.
- More efficient resource management
- To provide basis for improved sustainability
- To enable waste management through reduction of waste generation, solid- waste and water recycling
- To create plastic free campus and evolve health consciousness among the stakeholders
- To recognize the cost saving methods through waste minimizing processes
- To point out the prevailing and forthcoming complications
- Impart environmental education through systematic environmental management approach and improving environmental standards
- Financial savings through a reduction in resource use
- Enhancement of College profile
- To develop an environmental ethics and value system amongst students

4.0 Goals of Green Audit

- To achieve compliance standards and establish a report with regulatory bodies
- To identify needs, strengths, and weaknesses of the educational institute
- To review management systems and identify liabilities
- To assess environmental performance of the educational institute with the help of direct assessment.
- To promote environmental awareness among the staff and students
- To conserve non-renewable resources for betterment of future
- The long-term goal is to collect the baseline data in terms of environmental parameters, calculate its impact on the environment and recommend measures to reduce them

5.0 Target Areas of Green Auditing

- **Energy Conservation and Management:** This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliances, and vehicles.
- **Water Quality and Conservation:** This indicator addresses water consumption, water sources, irrigation, storm water, appliances and fixtures.
- **Biodiversity Conservation:** All plant and animal species - including microorganisms - are a part of biodiversity. All types of gardens, lawns and trees are considered in this aspect.
- **Waste Management:** This indicator addresses all types of waste from the College and associated amenities. The minimization, safe handling, and ultimate elimination of these materials are essential to the long-term health of the planet.
- **Carbon Footprint:** This aspect is for quantifying the carbon emissions from all the parts of the institution and quantifying how much of it is sequestered with the help the of landscape.



Figure 11: Target Areas of Green Audit

6.0 Methodology

6.1 Data Collection

In preliminary data collection phase, exhaustive data collection is performed using different tools such as preparation of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons, etc. Focus groups, if practiced, can also be a vital part of data collection stage to acquire qualitative information. Data collection has been done by using the questionnaire for each aspect of environment, which is attached as Annexure 1.

6.2 Survey by Questionnaire

Baseline data for green audit report preparation was collected by questionnaire survey method. Most of the guidelines and formats are based on broad aspects. Therefore, using these guidelines and formats, combinations, modifications and restructuring was done and sets of questionnaires were prepared as solid waste, energy, water, biodiversity, carbon footprint.

6.3 Data Analysis

The data required for the analysis is taken from the data collection, it includes: calculation of energy consumption, analysis of latest electricity bill of the campus, measuring water consumption, carbon foot printing, etc. The data from questionnaire and survey forms is tabulated for the convenience of data availability; Recommendations and Environmental Management Plan is built according to the analysis done in this step.

6.4 Recommendations and Reporting

Based on the data analysis step, some recommendations in the target areas are made. Specific measures are suggested to reduce water and energy consumption. Proper treatments of waste are suggested with respect to waste collection, waste disposal and recycling. Recommendations to reduce the use of fossil fuels are made for the betterment of community health. Proper disposal of hazardous waste is suggested to prevent mishaps. Management also takes into account the suggestions related to reducing their carbon footprint.

7.0 Detailed Analysis

7.1 Water quality and conservation

The overall objective of conducting a water audit is to identify opportunities to make system or building water use more efficient to balance the demand and supply of water.

Water consumption of M. U. College, Pimpri- Chinchwad Pune is **132.9** average kiloliters per month.

The College has total 6 water tanks with total 19000 Liters storage capacity, out of that, one is a on ground water tank with 10000-liter capacity, an overhead water tank with capacity of 5,000 liters and remaining 4 overhead water tanks with capacity of 1000 liters each.

Table No. 3: No. of tanks and its capacity

Water tank (no's)	Capacity (liters)
Water tank 1 (On ground)	10,000
Water tank 2 (Overhead)	5,000
Water tank 3 (Overhead)	1,000
Water tank 4 (Overhead)	1,000
Water tank 5 (Overhead)	1,000
Water tank 6 (Overhead)	1,000
TOTAL	19,000

Table No. 4: Water usage

Total capacity (liters)	19000
Number of persons	1735

Total water usage per day (liters)	4430
Total water usage per month (liters)	132900
Total water usage per month (kiloliters)	132.9

Note: The current water usage of college building is very less because the student count is reduced due to the lockdown. However, under normal conditions when the college is fully occupied the water usage is as follows:

Total capacity (liters)	19000
Number of person	1735
Total water usage per day (liters)	17350
Total water usage per month (liters)	520500
Total water usage per month (kiloliters)	520.50

a) Current practices of water management:

The College has Total 6 water tanks with total capacity of 19,000 liters.

Water tanks are being cleaned twice in a year, and purifiers are cleaned every month.



Figure 13: Underground water tank



Figure 14: Water tank System



Figure 15: Drinking water provision

7.2 Energy Conservation and Management

This indicator addresses energy consumption, energy sources and energy monitoring and lighting appliances. Data for electricity consumption of the College was collected and is listed below.

a) Electricity consumption:

Total Energy Consumption of the College is 1088 KWH per month.

Solar Power Generation by the College is 10kWp.

Table No. 5: Energy Consumption by College

Sr. No.	Electricity Consumption	Source
1.	1088(KWH per month)	MSEDCL
2.	10 KWP (1200 KWH/month generation)	Solar Panels

b) Current practices for energy management

Conserving energy produces a higher quality of life. In addition, it helps to create a healthier planet, or at least helps to sustain the resources already have.

The institution has installed **solar panels** on the roof of the college building that produces renewable energy to meet the increased electricity demand. The institute has installed solar panels that contribute to around 100% of the overall monthly electricity consumption. This enables to achieve **zero net energy consumption** as there is reduction in consumption due to lockdown. Hence this building is a net-zero energy building according to the current situation. During regular conditions the reduction in the energy consumption due to the solar panels can be around 20-30%.

- **Solar Panels** of 10 kWp are installed on the college building.
- **Diesel Generator** of capacity 25Kva is present to provide electricity with high energy efficiency at all times.

- All the classrooms have adequate ventilation and light which minimizes the use of electricity. Electricity wastage is controlled with the cooperation of teachers, students and non-teaching staff. The College has replaced old tube lights of the classrooms with energy efficient 50 LED tube lights. This helps to reduce the electricity.

Fixture	Wattage (W) for 50 Tube lights	Percentage savings
LED Tubelight	800	62.8 %
Old tube Tubelight	2150	

- Total 10 air conditioners are provided out of which 4 are 5 star rated and 4 are 3 star rated. The air conditioners are rarely used.



Figure 22: Solar panels

7.3 Waste Management

Solid waste can be divided into three categories: bio-degradable, non-biodegradable and hazardous waste. Bio-degradable wastes include food wastes, canteen waste, wastes from toilets etc. Non-biodegradable wastes include what is usually thrown away from homes and schools such as plastics, tins and glass bottles etc. E-waste is among the fastest growing solid waste classes and represents a serious hazard to the environment.

The details of solid waste generation using questionnaires and observations are tabulated below.

a) Generation of waste:

Total Waste Generation from the College could be 2610 kg/month as per National Building Code (NBC) standard.

Table No. 6: Category Wise Waste Generation

Dry waste	Wet waste
35 (kg/day)	52 (kg/day)
1050 (kg/month)	1560 (kg/month)

As per NBC norms, per person solid waste generation is 0.05 kg/day. Total -87 kg/day

Current solid waste generation:

Dry waste	Wet waste
1kg /day	5 kg/day
30 kg/ month	150 kg/month

However, the current waste generated is lesser when compared to National Building Code (NBC) standard as less number of students were present during the lockdown period. Moreover, the students are properly sensitized and hence environmentally responsive.

b) Current practices of solid waste management

- The waste generated from the college is segregated as dry, wet and E-waste.
- **Dry waste and wet waste** are collected and handed over to Pimpri-Chinchwad Municipal Corporation for disposal. The college has a paper shredder.
- The E-waste generation is approximately 2 kgs per year. Generated **E-waste** is collected by Aptech buy back policy for E-waste from where the electronic equipment are purchased. The buy-back policy enables handling, recycling and reusing of waste electronic equipment in an ecofriendly manner after returning the E-waste. The waste collected is diverted into industrially beneficial raw materials.
- **Sanitary Napkin vending Machine** is installed to promote safe and hygienic practices among women and girls.



Figure: 23: Dry & wet dust bins



Figure 24: Waste Collection

7.4 Biodiversity Conservation

This aspect addresses all the flora and fauna of the campus. The list below has the name and quantity of trees. Along with big trees, college has maintained Ayurvedic plants in courtyard area.

Table No. 8: Plant Species in the College Campus

Sr. no	Common name of plant	Botanical name	Quantity
1.	Brahmi	<i>Bacopa monnieri</i>	3
2.	Giloy	<i>Tinospora cordifolia</i>	4
3.	Shatawari	<i>Asparagus racemosus</i>	4
4.	Ashok	<i>Saruca asoca</i>	12
5.	Adulsa	<i>Justicia adhatoda</i>	3
6.	Kate koranti	<i>Barleria prioitis</i>	6
7.	Nirgudi	<i>Vitex negundo</i>	3
8.	Tamarind	<i>Tamarindus indica</i>	4
9.	Bel	<i>Aegle marmelos</i>	4
10.	Bheda	<i>Terminalia bellirica</i>	2
11.	Chitrak	<i>Plumbago zeylanic</i>	3
12.	Neem	<i>Azadirachta indica</i>	4
13.	Palas	<i>Butea monosperma</i>	2
14.	Banana	<i>Musa acuminata</i>	1
15.	Arjun	<i>Terminalia arjuna</i>	2

16.	Nilgiri	<i>Eucalyptus globulus</i>	12
17.	Mandukparni	<i>Centella asiatica</i>	3
18.	Christmas Tree	<i>Araucaria columnaris</i>	1
19.	Jamalgota	<i>Croton tiglium</i>	3
20.	Banyan tree	<i>Ficus benghalensis</i>	2
21.	Suru	<i>Casuarina equisetifolia</i>	2
Total			80

Some of the onsite pictures of the vegetation:



Figure 25: Vegetation in college premise



Figure 26: Vegetation in college premise



Fig nos. 27 & 28 : Green area

- **Fauna in the College campus**

Table No. 9: Fauna observed in the College Campus

Sr. No.	Specie Name	Scientific Name
Birds		
2	Black Kite	<i>Milvus migrans</i>
5	Rock Pigeon	<i>Columba livia</i>
6	Green bee Eater	<i>Merops orientalis</i>
7	Asian Koel	<i>Eudynamys scolopaceus</i>
8	House Crow	<i>Corvus splendens</i>
10	House Sparrow	<i>Passer domesticus</i>
11	Red-vented Bulbul	<i>Pycnonotus cafer</i>
14	Common Myna	<i>Acridotheres tristis</i>
15	Parrot	<i>Psittacula cuvier</i>
Mammals		
2	Stripped Squirrel	<i>Funambulus palmarum</i>
4	House Mouse	<i>Mus musculus</i>
5	Cat	<i>Felis silvestriscatus</i>
6	Dog	<i>Canis lupus familiaris</i>
Reptiles		
2	Common Bark Gecko	<i>Underwoodisaurus milii</i>

3	Common Indian monitor lizard	<i>Varanus benghalensis</i>
Butterflies		
1	Common grass yellow	<i>Eurema hecabe</i>
2	Common Indian crow	<i>Euploea core</i>
3	Common Emigrant	<i>Catopsilia pyranthe</i>
4	Common Rose	<i>Pachliopta aristolochae</i>
5	Plain Cupid	<i>Chilades pandava</i>
6	Plain Tiger	<i>Danaus chrysippus</i>

• **Birds**





- **Mammals**



- **Butterflies**





- **Reptiles**



7.5 Noise Quality

As an academic institute comes under silent zone, the noise should be below 50 Db (as per Maharashtra Pollution Control Board norms) during day time. Therefore, the noise in the college is also measured and not found within the standard limits. Road traffic increases the noise level within the campus.

- Backside of D.G. set = 65.6 dB
- Courtyard = 68.2 dB
- Near security cabin = 76.7 dB
- Backside of canteen = 72.1 dB

Note: The on road noise pollution is higher than internal college premise which resulted in a difference of 10 Db. However college has taken efforts to reduce the same by providing wide green belt area near main gate & accoustic enclosure to DG set etc.

MU College is located on Sadhu Vaswani road. The major source of noise is automobile use. Hence, the noise quality is not within the prescribed limits of Maharashtra Pollution Control Board (MPCB), However college has taken efforts to reduce the same by providing wide green belt near main gate & accoustic enclosure to DG set.

7.6 Carbon Footprint

Carbon footprint (CF) is the total amount of **greenhouse gases** (including carbon dioxide and methane) that are generated by human actions.

a) Carbon Emissions:

Table No. 11: Scopes of carbon emissions

Scopes	Sources	Description
Scope 1 (Direct)	Resource usage	Emissions from LPG Cylinder, D.G. Set, Air Conditioners
Scope 2 (Indirect)	Electricity Use	Emissions from Purchased Electricity and Renewable Energy
Scope 3 (Indirect)	Personnel commuting and materials transportation	Emissions from Personnel commutation and raw materials transportation
	Wastewater treatment	Emissions from waste water treatment
	Solid Waste treatment	Emissions from solid waste management

Emission Data and Calculations:

- **Scope 1** – All Direct Emissions from the activities of an institution are under its control including fuel combustion on site such as gas, etc.

Table No. 12: Scope 1 Emissions

Type of Fuel	Quantity per month	Emission Factor	KgCO ₂ /month
Fuel used for DG set	20 liters	2.64	52.8

LPG	3.55 Kg	2.98	10.57
TOTAL SCOPE 1 EMISSIONS KgCO₂ / month			63.37

Scope 2 – Indirect Emissions from electricity purchased and used by the institution. Emissions are created during the production of the energy and eventually used by the organization.

Emissions from Purchased electricity:

Table No. 13: Scope 2 emissions

Type of Emission	Quantity (KWH per month)	Emission Factor	KgCO ₂ / month
Emissions from Purchased electricity	1088	0.82	892.16
Renewable Energy (Avoided emissions)	1200	0.82	984
SCOPE 2 EMISSIONS KgCO₂ / month			892.16

Scope 3 – All Other Indirect Emissions from activities of the institution, occurring from sources that they do not own or control

1. Transportation: Increase in student intake can lead to increased greenhouse gas (GHG) pollution caused by the resulting growth in vehicular traffic, energy use, and other activities. This unit seeks to identify the impact on global climate change through its emissions of greenhouse gases (GHGs), notably carbon dioxide (CO₂). Students are sensitized about the pollution. Hence not many students use automobiles. Most of the students are from the vicinity and hence come walking. Those from suburbs, use public transport.

Table No. 15: Fuel Consumption through staff Transportation

Mode of transportation	Daily Count	Travelling distance (Km/Vehicle) (to and fro)	Total Km	Emission Factor	KgCO ₂ /day
2 wheeler	20	11	220	0.0319	7.018
Car (petrol)	6	28	168	0.1893	31.8024
Bus	4	34	136	0.5289	71.9304
Walking, cycle	11	-	-	-	-

TOTALEMISSIONS KgCO₂/day	110.7508
TOTALEMISSIONS KgCO₂/month	3322.524

Table No. 16: Fuel Consumption through students Transportation

Mode of transportation	Daily Count	Travelling distance (Km/Vehicle) (to and fro)	Total Km	Emission Factor	KgCO ₂ /day
2 wheeler	75	10	750	0.0319	23.925

Bus	4(125 students)	10	40	0.5289	21.156
Walking	50	-	-	-	-

TOTAL EMISSIONS KgCO₂/day	45.081
TOTAL EMISSIONS KgCO₂/month	1352.43

Note: the emissions from fuel consumption through student transportation under normal conditions where all students are present then will be as follows:

Fuel consumption through transportation for full occupancy

Mode of transportation	Daily Count	Travelling distance (Km/Vehicle) (to and fro)	Total Km	Emission Factor	KgCO₂/day
2 wheeler	508	10	5080	0.0319	162.052
Bus	28(847 students)	10	280	0.5289	148.092
Walking	339	-	-	-	-
TOTAL EMISSIONS KgCO₂/day					310.144
TOTAL EMISSIONS KgCO₂/month					9304.32

Total emissions throughout the year:**Table No. 20: Total emissions throughout the year**

Scope	Total Emissions per month (Kg CO ₂ per month)	Total Emissions per year(Kg CO ₂ per year)
Scope 1	63.37	760.44
Scope 2	892.16	10705.92
Scope 3	4674.954	56099.448
Total Emissions	5630.484	67565.808

Carbon Sequestration**Table 21: Carbon Sequestration of Trees**

Sr. no	Category of Trees	Quantity	Total Kg CO ₂ /year sequestration
1.	Trees	80	17919.47

- **Total carbon Emissions: 67565.808 KgCO₂ per year**
- **Avoided Emissions by Renewable Energy: 11808 Kg CO₂ per year**
- **Carbon Sequestration: 17919.47Kg CO₂ per year**
- **Total sequestration: 11808+ 17919.47 =29727.47 Kg CO₂ per year**
- **Percentage of carbon reduced: 44%**

b) Carbon Emissions Management:

The College has planted 80 trees in the campus to sequester carbon emissions. The college also has planted medicinal plants in the Ayurvedic plants nursery with a purpose to make students aware about their medicinal use.

Ambience of the campus

The ambience of the college is calm, spacious with good amenities and utilities in a visually appealing landscape. The built-up area of the college is 1937.95 sq. m. and the plot area is around 1726.78 sq. m. Various trees are planted at the periphery which in turn reduce the heat island effect of the college. The college has retained a considerable amount of natural topography which aids in plenty of water percolation. The campus provides divine atmosphere with academic ambience as green environment with trees and large playground enthusing students to learn to develop skills and nurture learning process.

8.0 Innovative Strides

- Regular environment awareness programs like youth day celebration, Swachh Bharat Abhiyan activities are organized for the students through the Nature Club and NSS.
- The College has adopted eco-friendly initiatives through the use of dust free chalks, white boards and an interactive board. The college has a plan to make college office paperless.
- The College has also developed a plant nursery on its campus. The College organizes various guest lectures, workshops and seminars for creating green awareness among students and the teachers. Also, during the NSS Camp, students undertake tree plantation activities.
- The College also participated in Plastic Mukta Abhiyan.
- Tree plantation activities are conducted to spread awareness pertaining to plantation and to develop Green city. Each student planted a Native tree. Ayurvedic plants were planted in the college campus on the occasion of College Foundation Day. The students tied rakhis to plants of the college on the occasion of Raksha Bandhan.



- M. U. College distributed 200 cloth bags and 400 paper bags to warkaris in Dehugaon, Akurdi and Khadki area.



- The students participated in the activity Visarjan to avoid pollution of rivers due to Ganapati visarjan. Ganapati Idol Making workshop was conducted.



Name of the Scheme	Organizing unit/Agency/Collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swatch Bharat	NSS	Cleaning college campus	2	32
Harit Wari, Nirmal Wari Swatch Wari	NSS	Participated in Wari for cleanliness	1	25
River Cleanliness	NSS	Pawana river cleaned on occasion of 2nd Oct Mahatma Gandhi Jayanti	1	25
Tree Plantation	NSS	Tree plantation in college campus	5	18

9.0 Recommendations from the audit

1. Water Quality and Conservation

- Installation of **Sewage Treatment Plant** for waste water management of whole campus is recommended.
- Installation of **low flow plumbing fixtures like aerators and water regulators** for water conservation.
- Install **water aerators and automatic shut-off** devices on faucets.

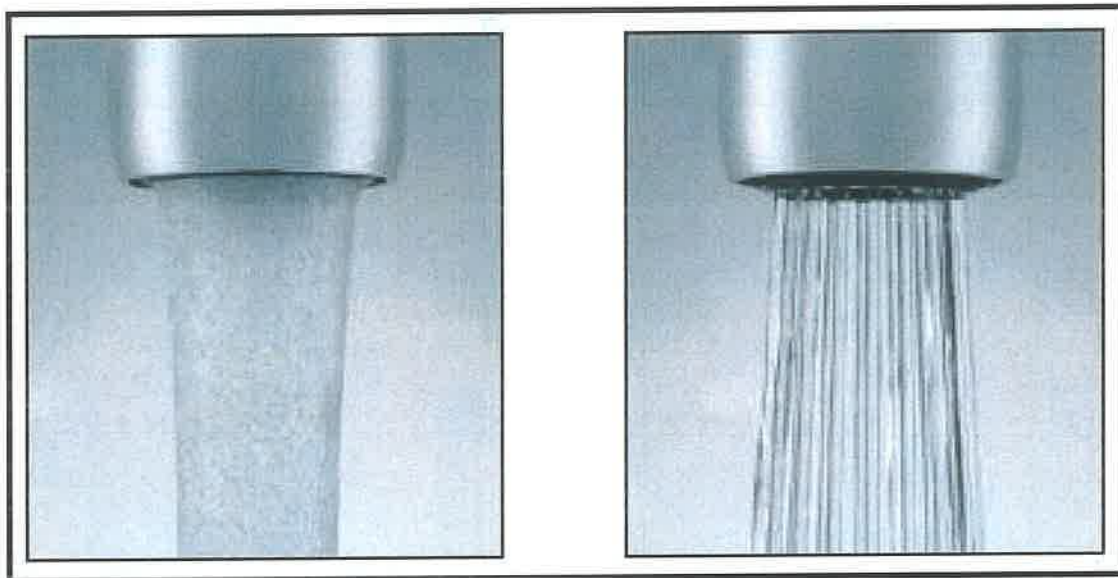


Figure 33: Difference between normal and low flow plumbing fixtures

- Performing internal water audits every six months
- Checking **portability of water quarterly** is recommended.
- **Rain water harvesting system** can be installed in order to collect the rain water.

2. Energy Conservation and Management

- Installation of **energy meters** for every department to track electricity consumption is suggested.
- Installation of **energy efficient fans**.
- Setting **Yearly Performance targets**.
- Putting up **sign boards** to spread awareness for electricity consumption.

- Planning **workshops** on energy conservation to educate students, faculty and staff can generate huge results of awareness.
- Performing **internal energy audits** every year is advised.

3. Waste Management

- One of the suggested methods for garden waste disposal is **Mulching**.
- The garden waste from the college will be diverted to the **vermicomposting pit**, which then produces organic manure. This organic manure will be used for trees in the campus.
- Shredded papers should also be disposed through composting method



Figure 36: Paper shredding machine

- Maintain **waste collection record** on daily basis for future convenience.
- Try to inculcate the concept of '**Plastic free Campus**'.
- To cut down the waste and carbon footprint, the College should follow **paperless methods of communication** and use emails, that too as minimum as possible.
- To cut down the waste and carbon footprint, the College should follow **paperless methods of communication** and use emails, that too as minimum as possible.

4. Biodiversity Conservation

- Maintain **natural topography** wherever possible.
- Planting more **fruit-bearing** trees can attract birds.
- Displaying **boards of fauna diversity** in the campus can generate enthusiasm for learners.
- Develop a **butterfly garden** that arouses appreciation towards flora and fauna diversity in the College.
- Plant more **native trees** within the campus.

5. Noise Quality

- Use of **bicycles or electric vehicles** for transportation.

6. Carbon Footprint

- Maintain '**No Vehicle Day**' at least once a month.
- Use **CFC free** equipments.
- Encourage **ride share** program.

7. General Recommendations

- Maintain **Environmental Management plan** to ensure positive benefits.
- Activate **Environmental management committee** to look after the compliance of EMP plan.
- Conducting **internal environmental audits** can help understand key points.
- Celebrating **World Environment Day, World Water Day and Ozone Day** in the campus to provide awareness to the students about the importance of the environment, its conservation and sustainable use of environmental resources.
- Putting up **posters related to Environment, Health and Safety** (Saving Electricity, Water Conservation, etc.) is an easiest way to spread awareness.
- Adopting **IGBC Green campus** rating system will help boost the College Profile.

- The Indian Green Building Council (IGBC) has launched 'IGBC Green Campus rating system' to address the National priorities. This rating programme is a tool which enables the designer to apply green concepts and reduce environmental impacts that are measurable. Green Campuses can have tremendous benefits, both tangible and intangible. The most tangible benefits are the reduction in water and energy consumption right from day one of occupancy. The energy savings could range from 20 -30 % and water savings around 30 - 50%. Intangible benefits of green campus include health & well-being of the occupants, enhancing air quality & promoting biodiversity, safety benefits and conservation of scarce national resources.

10.0 Conclusions

Green Audit is the most efficient way to identify the strength and weakness of environmental sustainable practices and to find a way to solve problems. Green Audit is one kind of a professional approach towards a responsible way in utilizing economic, financial, social and environmental resources. Green audit can “add value” to the management approaches being taken by the College and is a way of identifying, evaluating and managing environmental risks (known and unknown). There is scope for improvement, particularly in relation to waste, carbon footprint, water management and biodiversity. Currently, there is a considerable amount of renewable energy consumption which results in zero net energy consumption. The College considers the environmental impacts from most of its actions and makes a concerted effort to act in an environmentally responsible manner. Even though the College does perform fairly well, the recommendations in this report highlight many ways in which the College can work to improve its actions and become a more sustainable institution.

11.0 Environmental Management Plan

By keeping in mind, the current scenario of consumption of various entities and the current practices of the management, Greenex Environmental has prepared an 'Environmental Management Plan' for the College. This plan will reveal strengths and weaknesses of the College as well as suggestions on how to tackle the issues and develop green and clean campus. It also gives suggestion for the priority of work to carry out.

Water					
Details	Daily	Monthly	Quarterly	Yearly	Remarks
Cleaning of water tanks		√			
Energy					
Performing energy audits				√	
Waste					
Disposal of E-waste to authorized vendors				√	
Maintaining waste quantity record	√				
Biodiversity					
Maintain quarterly tree count			√		
Carbon footprint					
Recording of diesel usage in D.G. sets	√				

Recording LPG gas refilling frequency		√			
Recording of number of visitors	√				

12.0 References

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- https://www.ipcc.ch/site/assets/uploads/2018/03/srccs_wholereport-1.pdf
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- <https://dsclatur.org/mission-goals/>
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- <https://www.ijsr.net/archive/v5i4/NOV163155.pdf>
- [https://www.unm.edu/~jbrink/365/Documents/Calculating tree carbon.pdf](https://www.unm.edu/~jbrink/365/Documents/Calculating_tree_carbon.pdf)

Annexure 1**Energy Conservation and Management**

Prerequisites	Affirmation	Response	Capacity	Documentary Evidence
Total Energy Consumption	Yes/No			Light Bills
Renewable Energy	Yes/No			Technical Specifications
Energy Audit Report	Yes/No			Report
Energy use breakup	Yes/No			Report/Documents
Energy Meter	Yes/No			Photos
Outdoor Bulb Directions	--			Photos

Water Quality and Conservation

Total number of water users	
Number of Employee	
Number of visitors (daily)	
Number of Students	
Rain water harvesting system availability	
Is rain water harvesting system working?	
Daily water supply (liters)	

Source of water	
Water Meter	

Water Storage:

Details of the storage structures -

Storage tanks	Capacity (Liters)	Number	Number of times it is topped (or filled)
Overhead			
Underground			
Total			

Waste Management

Type of Waste	Quantity	Method of Disposal
Paper		
Plastic		
Garden Waste		
Glass		
Wood		

Biodegradable		
Cloth		
E-Waste		

Carbon Footprint

Prerequisites

Scope I	D.G. Set	Diesel consumed per month:	No. -
	LPG	Consumption per month:	No. -
	CO ₂ Extinguishers		No. -
	AC	Capacity: Make up :	No. -

Scope III	Staff Commuting	Distance:	Type of Vehicle:	No. -
	Students	Distance:	Type of Vehicle:	No. -
	Other Material Deliveries	Distance:	Type of Vehicle:	No. of trips-

Biodiversity

Sr. no	Name	Quantity
--------	------	----------

Flora		
1.		
2.		
3.		
Fauna		
4.		
5.		
6.		

Our Team

1. Arati Bhosale

M. Sc. Environment, PGDISHE

Director, Greenex Environmental

IGBC AP, GRIHA CP, LEED GA, EMS lead Auditor, CII certified Carbon Footprint Professional

Work Experience:

Rich experience of 10 + years in Environment field. Expertise in Life cycle assessment study, carbon footprint, water footprint & IGBC GRIHA, LEED Certifications. She has successfully accomplished 150 + Products LCA study and 50 + Green building projects.

2. Dr. Ganesh Kadam

PhD (Environmental Science & Technology), M.Sc. (Env. Sci.), RIO +20 India (2013),

PGDISHE (Post Graduate Diploma in Industrial Safety Health & Environment), PGDGIS (Post Graduate Diploma in Geoinformatics)

Work Experience:

More than 12 yrs of experience in the Environmental research field with 6 years' experience of Institutional Green Auditing. Conducted more than 10 audits for various Colleges and College. Total 6 National and International Publications published in reputed journals.

3. Chaitrali Kulkarni

B.E. (Civil Engineering), M.E. (Environmental Engineering)

Work Experience:

Working on Carbon Footprint, Green Building certification and Green Audit Projects.

Completed internships in PCMC Water treatment plant and drainage site at Manjulai Construction Company

4. Akanksha Shende

B.Arch , M.Arch Environmental

IGBC AP, GEM CP

Environmental Architect, Greenex Environmental

Work Experience:

Working on Carbon Footprint, Green Building certification and Green Audit Projects.

Completed internships in Vatushilp & Terre Policy Centre.



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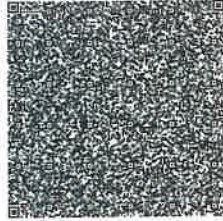
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To
हरिषिता विशाल वच्चानी
Harshita Vishal Vachhani
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Pune Maharashtra - 411017
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भारत सरकार
Government of India



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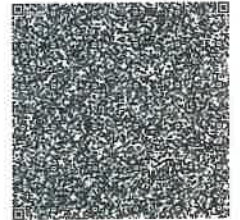
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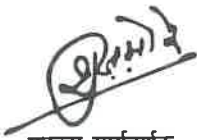
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अभियानांतर्गत

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सावित्रीबाई फुले पुणे विद्यापीठ,
राष्ट्रीय सेवा योजना विभाग यांच्या संयुक्त विद्यमाने
आयोजित

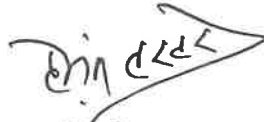
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डा. लीना सुनिल मोदी, एम.यु.स्त्री.स्त्री,
पिंपरी.

यांस हे प्रमाण पत्र प्रदान करण्यात येत आहे.



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सावित्रीबाई फुले पुणे विद्यापीठ
विद्यार्थी विकास मंडळ
वृक्षारोपण कार्यक्रम

महाविद्यालयाचे नाव	:	Jai Hind Sindhu Education Trust Manghanmal Udham College of Commerce Addr: Opposite Jijamata Hospital Ta: Pimpri Chinchwad (corporation Area) Dist: Pune
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विद्यार्थी विकास अधिकारी	:	शिरोडे ज्ञानेश्वर बाबूलाल
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वृक्षारोपणाचे ठिकाण	:	Bhandara Dongar, Jambvade Gaon, Dehu Road
वृक्षांची नावे	:	Indian Varieties of Trees
जिवंत रोपांची संख्या(ऑक्टोबर ते डिसेंबर)	:	15
जिवंत रोपांची टक्केवारी(ऑक्टोबर ते डिसेंबर)	:	75




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स्वाक्षरी
Student Welfare Officer
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स्वाक्षरी व मोहोर
Principal
M. U. College of Commerce
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वि.वि.मं.नोंदणी क्रमांक :- PC39

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विद्यार्थी विकास मंडळ

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सहभागी होणारे घटक / विभाग	:	College students and staff members

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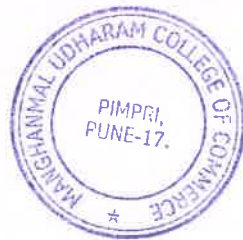
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13/00

Report

On 3rd July 2018, workshop on paper bag making was held under NSS and Environmental activity. 35 students from S.Y.B.Com attended the workshop. Ms. Deepti Naidu and Ms. Mohanti Meena from S.Y.B.Com taught the students how to make paper bag. This activity was conducted to make aware the students about the pollution created by plastic, and to reduce the use of plastic. Paper bag is the cheapest alternative to non-biodegradable substance like plastic and they can well be put into reuse. Paper bags reduces the garbage which is the main reason for increase in waste and pollutants. One time useable paper bags can be converted into organic manure when mixed with other household wet waste. These paper bags were distributed in hospitals to provide medicines to the warkaries and the people who distribute the food to the warkaries of pandharpur dindi to reduce the use of plastic.

Leena
Leena Modi



NSS Programme officer
Manghanmal Udharan College of Commerce
Pimpri, Pune-411 017.

V Rao
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.



V Rao
Principal
College of Commerce
PUNE - 411 017





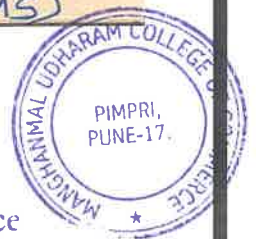
2018-2019



Distribution Of Cloth Bags to Warkaris
(PILGRIMS)

Bow
Principal

V. U. College of Commerce
Pimpri, PUNE - 411 017.





Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.



Jai Hind Sindhu Education Trust's
MANGHANMAL UDHARAM COLLEGE OF COMMERCE

PIMPRI, PUNE - 411 017.

(Affiliated to the Savitribai Phule Pune University, Pune)
(PR No. ID : PU/PN/C/045/1983)
NAAC Reaccredited 'B++'

Principal
Dr. (Mrs.) Vijayalakshmi Nambiar
M.Com., M.Phil., Ph.D.

Ref. No. : 39 | 2018-19

Date : 1-8-2018

To,
Mahasul and Wan wibhag,
Maharashtra Government.

Sir,

On 27th July, 2018, under NSS our college have planted 250 plants in Dehugaon. Our students planted all Indian plants. 30 students and two teachers participated in this drive. The information about plantation is given below.

Coordinator: Mrs. Leena Modi (NSS Program Officer)

Total students for plantation: 30

Place: Dehugaon

Planted trees: 250

Teacher participated: 2

Objective:

1. To develop Green city
2. One student one tree
3. Planted Indian Trees

Leena

Programme Officer
National Service Scheme
M.U.C.C.

V Rao

Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.

Vijayalakshmi Nambiar

Vijayalakshmi Nambiar
Principal

Dr. Vijayalakshmi Nambiar
M. U. College of Commerce
Pimpri, PUNE - 411 017

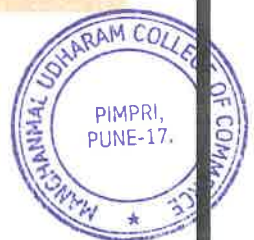
Tel. :

E-mail : mucc17@rediffmail.com, principal.mucc@gmail.com
Website : www.mucollege.org

2018-2019



Tree Plantation on Dehu Hill



V. B. W.
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017

Report

On 7th September 2018 a workshop on Idol of Ganapati making was organised for the students. Workshop was held on how to make eco-friendly Ganapati. Around 150 students attended the workshop. The reason behind organising such a workshop was to create awareness to protect the environment. During Ganesh festival Rivers get polluted due to Ganapati Visarjan. So to reduce such pollution Ganapati festival should be celebrated in eco-friendly manner. One of the way to reduce pollution of rivers is to prepare Idol of eco-friendly Ganapati. Along with this, students were guided by the teacher not to through Nirmalya in Rivers and not to do Virsarjan of Ganapati in Rivers but Visarjan of Ganapati can be done in buckets and tanks at home and used this water to the Plants.

Leena
Leena Modi
NSS P.O.



Raw
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017

M.U.College Of Commerce Pimpri, Pune-411017

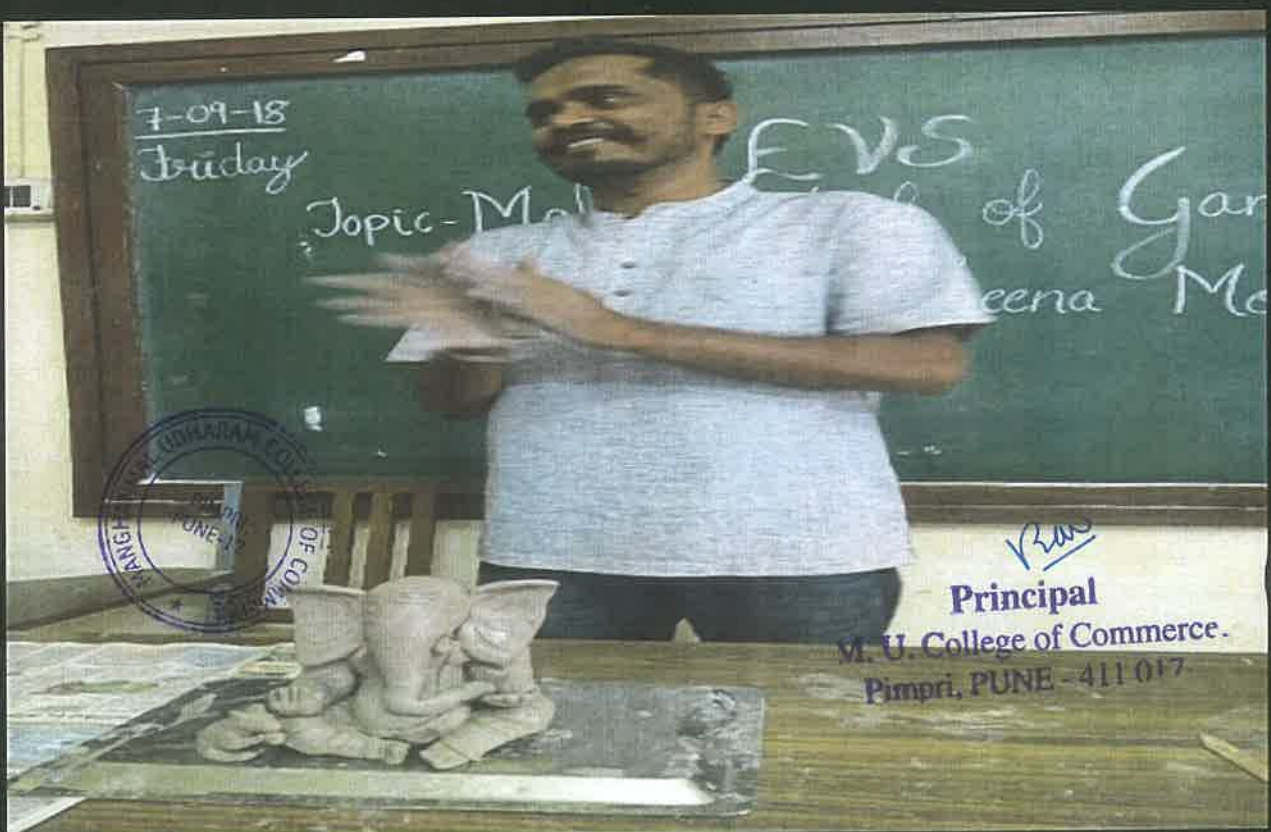
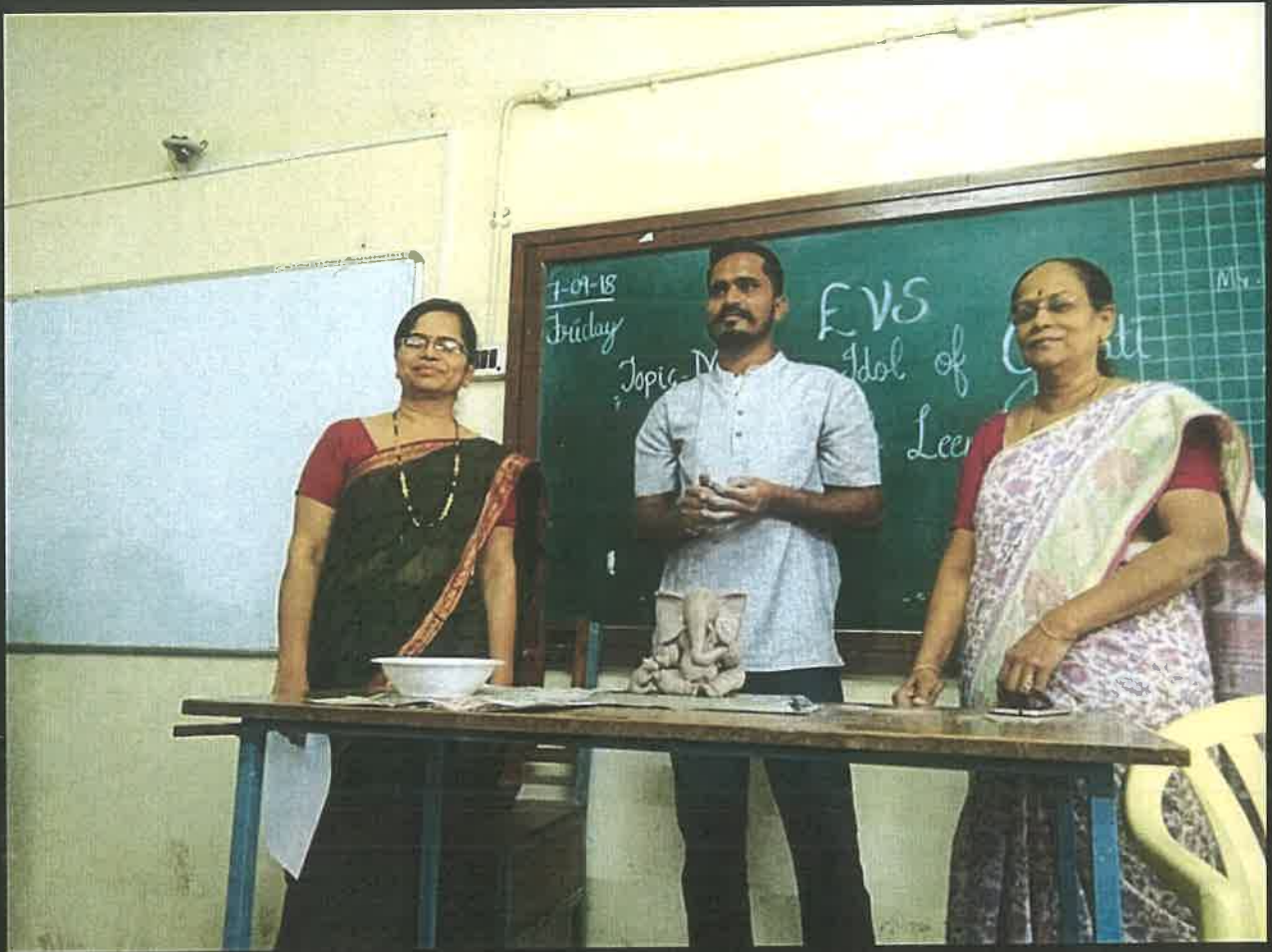
Practicle No. 1 Under (EVS)

Date :



Roll NO.	Name of the Students	Sign
680	Akshata R. Kapse	<u>Akshata</u>
607	Devashree Kalyani	<u>Devashree</u>
441	Shaikh Haseeb	<u>Haseeb</u>
443	Anjali. Shah.	<u>Anjali</u>
444	Shabnam. M. Ansari	<u>Shabnam</u>
644	Prachi Sunil Jamkhale	<u>Prachi</u>
438	Rutuja Sunil Kawade	<u>Rutuja</u>
455	Supriya B. Talpe	<u>Supriya</u>
578	Shubhangi. V. Kamble	<u>Shubhangi</u>
579	Rekha Nikam	<u>Rekha</u>
580	Rekha Sharma	<u>Rekha</u>
485	Hishwatyia A. Gund	<u>Hishwatyia</u>
593	Snehal A. Waghmare	<u>Snehal</u>
519	Muskan. M. Morwani	<u>Muskan</u>
560	Chandni. P. Ghangyari	<u>Chandni</u>
445	Anjali Ramesh chinchale	<u>Anjali</u>
635	Nikita Dadarao Nagdive	<u>N. D. Nagdive</u>
679	Ketaki Vaman Kale	<u>K. V. Kale</u>
465	Pallavi Samjay Nirgule	<u>P. S. Nirgule</u>
463	Anjali Tribhuvan Vishwakarma	<u>Anjali</u>
466	Priti Walniki	<u>Priti</u>
727	Rushikes Nikam	<u>Rushikes</u>
885	Kunal wadhwan	<u>Kunal</u>

Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.



M. U. COLLEGE OF COMMERCE
PIMPRI, PUNE - 411 017

[Signature]
Principal
M. U. College of Commerce.
Pimpri, PUNE - 411 017.

Report

To avoid pollution of rivers due to Ganapati Visarjan Social workers from Pimpri, has built an artificial pond in Pimprigaon for Ganapati Visarjan. Students from our college participated in this activity on 19th and 21st September 2018. This activity was organised to make aware the students about the river pollution created by Ganapati Visarjan. This will also help the student to know how to do eco-friendly Ganapati visarjan.

Leena

Mrs. Leena Modi

Programme Officer
National Service Scheme
M.U.C.C.



V. U.
Principal

V. U. College of Commerce
Pimpri, PUNE - 411 017

Ganapati Visarjan in Artificial Ponds in Pimpri. Date: 19th & 21st Sep. 2018



Leena
Dr. Leena modi
NSS P.O.



V. Rao
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.

Manghanmal Udham College of Commerce, Pimpri
Attendance sheet of Ganapati Visarjan

Sr. No.	Name of the Student	19/09/2018	21/09/2018
1	Shubhangi Kamble	S. Kamble	S. Kamble
2	Annamerry fernandis	Ana.	Ana.
3	Deepika pandey	<u>Deepika</u>	<u>Deepika</u>
4	Utkarsha Jadhav	<u>U. Jadhav</u>	<u>U. Jadhav</u>
5	Anjali swami	Anjali	Anjali
6	Sujata prasad	S. Prasad.	S. prasad.
7	Shweta Pawar	Shweta	Shweta
8	Sharmin Shaikh	<u>Shaikh</u>	<u>Shaikh</u>
9	Anuradha Pawar	Anuradha.P.	Anuradha.P.
10	Devashree Kalayani	Dev.	Dev.
11	Sneha Bhire	S.B.	S.B.
12	Rutuja Kawade	<u>Rutuja</u>	<u>Rutuja</u>
13	Vaishnavi Dhar	<u>Vaishu.</u>	<u>Vaishu.</u>
14	Dashi Goyal.	Dashi	Dashi
15			
16			

Leena
Leena Modi
NSS P.O.



Prav
Principal
M. U. College of Commerce
Pimpri, PUNE- 411 017.

Report

Malin Disaster and Nirmalwari

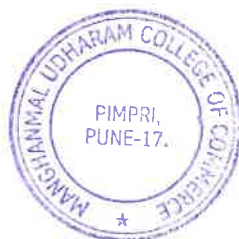
On 24th September 2018, Guest lecture was organised. Mr. Sandeep Jadhav, Divisional manager of Kalyan Janata Bank was invited as a Guest speaker. He is a social worker and he worked in Malin when Malin disaster occurred. Every year he visit Pandharpur one month before wari to work on Nirmalwari.

He shared his experience of Malin disaster. He told how the disaster was terrific and affected the people.

He explained why Nirmal wari is so important. He told the changes in the village and in warkaries before and after the people started working on Nirmalwari. He told due to Nirmalwari the deceases have reduced and it helped to remain the place clean even after the wari. He shared how they are actually working on Nirmalwari Abhiyan. On the way to Pandharpur mobile toilets are kept at different places and motivate the warkaries to use it. This helps to keep the surroundings clean. The main aim of Nirmalwari Abhiyan is to create awareness to keep the surroundings clean on the way to wari. Students from different colleges also participate in Nirmalwari Abhiyan.



Mrs. Leena Modi



Principal

M. U. College of Commerce
Pimpri, PUNE - 411 017.

NSS Programme officer
Manghanmal Udharam College of Commerce
Pimpri, Pune-411 017.



Roll No.	Name of the Student	Academic year	contact	Sign.
565	Prachi N. Rajpure	2018-19	9028528024	Prachi
469	Vaishali Chatur	2018-19	9552672413	Vaishali
566	Komalika Lalwani	2018-19	9922882928	Komalika
452	Disha Tejwani	2018-19	8112019199	Disha
466	Pritee Walmiki	2018-19	8975098336	Pritee
579	Rekha Nikam	2018-19	9765448800	Rekha
632	Pathan Saba	18-19	8421716658	Pathan
634	Shaikh Ruksar	18-19	8421553419	Shaikh
633	Sayed Khushbu	18-19	9527145879	Khushbu
686	Radhika S. Vair	18-19	7972967499	Radhika
578	Shubhangi V Kamble	18-19	887522984833	Shubhangi
685	Pooja Baradhan	18-19	9112990496	Pooja
485	Aishwarya Gund	18-19	9823247014	Aishwarya
580	Rekha Sharma	18-19	7385563968	Rekha
725	Pratiksha Thasildar	18-19	7775919412	Pratiksha
593	Snehal A. Waghmare	18-19	7875995250	Snehal
724	Haashada G. Ghose	18-19	9623824688	Haashada
573	Shweta Goswami	18-19	8806203424	Shweta
595	Pratiksha A. Pol	18-19	9156170930	Pratiksha
639	Aishwarya Gaitwad	18-19	7517088034	Aishwarya
666	Esha Pillay	18-19	9527614476	Esha
727	RUSHIKESH NIKAM	18-19	9527614476	Rushikesh
638	Gumit N Rasal	18-19	7758059202	Gumit
637	Dikshita S. Joshi	18-19	7447226071	Dikshita
735	Pratik A. Bhojale	18-19	2448169254	Pratik



Principal

M. U. College of Commerce


Pimpri PUNE - 411 017

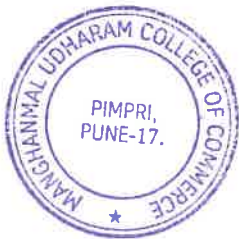
Report

Raksha Bandhan

On Monday 27/07/2018 “**Raksha Bandhan**” under EVS and **N.S.S.** was celebrated. Students prepared ‘**Rakhis**’ and tied to the “Plants”. This activity is conducted to make aware the students about importance of the plant. There is no life without Plants. Students tied Rakhis to the Plants in college campus and also to the plant in “**Pimpri Police chowki.**”

Students also visited of “**Pimpri Police chowki**” to tie “**Rakhi**” to the Police as they protect us.


Mrs. Leena Modi
(Nature Club Coordinator)



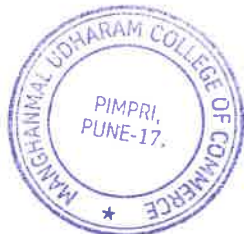

Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.

MANGHANMAL UDHARAM COLLEGE OF COMMERCE, PIMPRI

Attendance sheet of Raksha Bandhan on 27/7/18.

Organized the Program under EVS

Roll No	Name of the Student	Signature
947	Deepika Rajkumar Pandey	<u>Deepika</u>
920	Snehal Anil Waghmare	<u>Snehal</u>
944	Tonni Dharmadhikari	<u>Tonni</u>
945	Heena Siddiqui	<u>Heena</u>
946	Bhagyashree Yadav	<u>Bhagya</u>
943	Praveen S. Upadhyay	<u>Praveen</u>
1049	Deepak Menghani	<u>Deepak</u>
1050	Kunal & Wadhvani	<u>Kunal</u>
941	Attharva Dilip Barve	<u>Attharva</u>
948	Priyanka Pradeepkumar Pandey	<u>Priyanka</u>
1081	Avinash Kumbhar	<u>A. Kumbhar</u>
1072	Gurupreet Singh	<u>Gurupreet</u>
942	Disha Tejawani	<u>Disha</u>
876	Deekda K Salim	<u>Deekda</u>
875	Mohanty Meena	<u>Mohanty</u>



V. Rao
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017

Tied Rakhi to Policemen and Plants in Police Chowki, Pimpri.



Tied Rakhis to the Plants in College

Leena
Dr. Leena modi
NSS P.O.




Basu
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.

Notice

02/09/2019

This is to inform SYBCOM students that an industrial visit to Kurupp Industries in the last week of September 2019. Those who are interested kindly register your name to the staff incharge


Staff Incharge
Deepa Nathwani


Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.



1) 597 - Jiwari Aniket	<u>A. Aniket</u>	8177986965
2) 550 - Ashish Goswami	<u>Ashish</u>	7499087477
3) 598 - Asmita Tiwari	<u>Asmita</u>	9021704956
4) 543 - Rahul Bhagwani	<u>Rahul Bhagwani</u>	9689712267.
5) 545 - Gayathri Kadali	<u>Gayathri Kadali</u>	8983411576
6) 520 - Bindliya D. Lalwani	<u>Bindliya D. Lalwani</u>	9503895874.
7) 638 - Meghana Rao	<u>Meghana Rao</u>	7972247433
8) 635 - ALICE NADAR	<u>Alice Nadar</u>	9022792904
9) 6 - Kaushik Pillay	<u>Kaushik Pillay</u>	8329763988
0) 531 - Pratiksha K. Keswad	<u>Pratiksha K. Keswad</u>	9359108661
1) 536 - Kirti C. Nakhate	<u>Kirti C. Nakhate</u>	8805047545
2) 538 - Daivashila A. Mane	<u>Daivashila A. Mane</u>	9284688981
3) 420 - Namita D. Kale	<u>Namita D. Kale</u>	8329800465



V. U.
Principal
V. U. College of Commerce
Pimpri, PUNE - 411017



Jai Hind Sindhu Education Trust's
MANGHANMAL UDHARAM COLLEGE OF COMMERCE

PIMPRI, PUNE - 411 017.

(Affiliated to Savitribai Phule Pune University, Pune)

NAAC Reaccredited 'B++'
☎ : 9028004422

Dr. Vinita Basantani (M.A., Ph.D.)
Principal

Ref. No. : 229 CA) / 2019-20

Date : 14/01/2020.

To,
Narendra Bhagwat,
Member of Vasundhara Abhiyan
Pune-411044.

Sub.: Letter of Gratitude

Dear Sir,

We are extremely thankful for accepting and delivering a guest lecture on Butterfly conservation on 14/01/2020 for students during NSS camp. We hope to get co-operation from you in future as well.

Thanking You



V B W
Principal,
M. U. College of Commerce
Pimpri, PUNE - 411 017.

V B W
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.

7.1.4

EVS Study tour

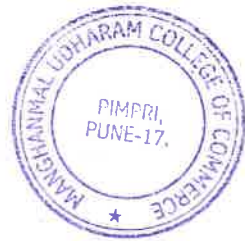
03-02-20 Shubha Kulkarni - River walk Ramnadi

Shubha took the students on a walk along a part of the Ramnadi. She gave details about the river. She shared about the different kinds of pollution done by the people. She informed about ways to reduce pollution.

46 students and Mrs Nadar & Dr Deepa Nathwani participated in the river walk.

03-02-20 Visit to Central Bee research institute

At the Central Bee research institute they gave a presentation explaining the Honey bees, their activities and lifecycle. They informed how the bees are needed to keep our environment stable. They showed the bee museum to the students. A demonstration to handle the bees was given to the students. 46 students and Mrs Nadar & Dr Deepa Nathwani gave a visit to the Bee research center.



Rao

Principal

**M. U. College of Commerce
Pimpri, PUNE - 411 017**



Jai Hind Sindhu Education Trust's
MANGHANMAL UDHARAM COLLEGE OF COMMERCE

PIMPRI, PUNE - 411 017.

(Affiliated to the Savitribai Phule Pune University, Pune)

(PR No. ID : PU/PN/C/045/1983)

(ASIHE CODE : C - 41934 - 2018)

NAAC Reaccredited 'B++'

Officiating Principal
Dr. Mrs. Vinita Basantani
M.A., Ph.D

Ref. No. : 01w-No-259/2019-20

Date : 01/02/2020

To,
Ms. Shubha Kulkarni,
Jeevit Nadi,
Pune

Subject: Educational tour for BCom Students on 03-02-2020

Dear Sir/ Ma'am,

As a part of curriculum, our students visit different industries under the subject Environment Awareness. Students will be accompanied by Prof. Nadar.S.T, and Ms. Deepa Nathwani, our faculty members.

We thank you for your support and co-operation.

Thanking you,

V. Basantani
Officiating Principal
M. U. College of Commerce
Pimpri, Pune-411 017.

Shubha
3/2/2020

V. Basantani
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017





Jai Hind Sindhu Education Trust's
MANGHANMAL UDHARAM COLLEGE OF COMMERCE

PIMPRI, PUNE - 411 017.

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(ASIHE CODE : C - 41934 - 2018)

NAAC Reaccredited 'B++'

Officiating Principal
Dr. Mrs. Vinita Basantani
M.A., Ph.D.

Ref. No. : 01W-NO= 259/2019-20

Date : 01/02/2020.

To,
The Asst. Director,
Centre for Bee Research and Training Institute,
Shivajinagar Pune

Subject: Educational tour for BCom Students on 03-02-2020

Dear Sir/ Ma'am,

As a part of curriculum, our students visit different industries under the subject Environment Awareness. Students will be accompanied by Prof. Nadar.S.T, and Ms. Deepa Nathwani our faculty members.

We thank you for your support and co-operation.

Thanking you,

V.B.W.
Officiating Principal
M. U. College of Commerce
Pimpri, Pune-411 017.

V.B.W.
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017

*Ref
Sum
3/2/20*



Roll No.

Name

Sign

498

Sneha Sharnad Mane

Sneha
Sharnad

422

Rutuja Tadhar

Rutuja
Tadhar

674

Heena Mallik

Heena
Mallik

494

Bhyanika Kadam

Bhyanika
Kadam

611

Anuksha Gawade

Anuksha
Gawade

687

Prateek Singh

Prateek
Singh

722

Manasi S. Khandale

Manasi
S. Khandale

723

Shreya J. Mandat

Shreya
J. Mandat

721

Snehal Pawar

Snehal
Pawar

634

Ankita Gambhale

Ankita
Gambhale

500

Rashmi Mahajan

Rashmi
Mahajan

554

Shruti Jamdade

Shruti
Jamdade

555

Sapna Ragade

Sapna
Ragade

530

Diya Gawade

Diya
Gawade

531

Pratiksha Keswad

Pratiksha
Keswad

523

Neha Mohite

Neha
Mohite

514

Mohini Tombhe

Mohini
Tombhe

515

Vaishnavi Umale

Vaishnavi
Umale

501

Ruchi Agarwal

Ruchi
Agarwal

670

Tarunya Tambe

Tarunya
Tambe

685

Sheetal Wagdare

Sheetal
Wagdare

682

Rutuja Lande

Rutuja
Lande

502

Pooja Gava

Pooja
Gava

427

Dimple Bijlani

Dimple
Bijlani

423

Jabassum Shaikh

Jabassum
Shaikh

680

Kale Anisha

Kale
Anisha

631

Shaikh Fatima

Shaikh
Fatima

404

Aarvin Chaudhary

Aarvin
Chaudhary

536

Jiruti C. Nakhate

Jiruti
C. Nakhate

538

Daiwashila A. Mane

Daiwashila
A. Mane

504

Shital Balwani Pimpri, PUNE - 411 017

Shital
Balwani

545

Uravathi Kadali

Uravathi
Kadali

571

Sushmit Kam Bedi



Principal

M. U. College of Commerce

Pimpri, PUNE - 411 017

Bao

Roll No

Name.

713

Karnal. H. Rajder.

Sign
Karnal

576

Kunal. D. Uttamchandani

Kunal
R. Rai

~~416~~ 416

ROHAN. P. RAI

548

Abhinav. V. Iyer.

431

Abhijit. Shobu. Raj

Ashish
A. Raj
Nair

527

Aayush Nair

550

Ashish Goswami

566.

vikas Apate

496

prasad Rajput.

Ashish
D. Nair
A. Raj
Nair

(597

Aniket Tiwari.

508

Sakshi Jawaharani

507

Janhavi. Jeswani

S.K.T
J. Jeswani
A. Raj

528

Payal Sapkal



Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017



V Rao

Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017

03-02-20 Visit to Central Bee research institute



V Rao
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017



Jai Hind Sindhu Education Trust's
MANGHANMAL UDHARAM COLLEGE OF COMMERCE

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(PR No. ID : PU/PN/C/045/1983)

(ASIHE CODE : C - 41934 - 2018)

NAAC Reaccredited 'B++'

Officiating Principal
Dr. Mrs. Vinita Basantani
M.A., Ph.D

Ref. No. : 282/2019-20

Date : 22/02/2020

To,
NSS Director,
SPPU.

Sub: Cleanliness drive on Sinhadagad.

Sir,

As per your Circular NSS/2019-20/550, we are sending 20 students from our college NSS Code A-25 for Cleanliness drive on Sinhadagad. The list of volunteers is attached herewith.

Thanking you,

Leena

Dr. Leena Modi

(NSS P.O.)



V. Basantani
Officiating Principal
M. U. College of Commerce
Pimpri, Pune-411 017.

V. Basantani

V. Basantani
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.

Sinhagad Cleanliness Drive.



Leena
Dr. Leena Modi
NSS P.O.



Prin
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.



सावित्रीबाई फुले पुणे विद्यापीठ, राष्ट्रीय सेवा योजना आयोजित

सिंहगड स्वच्छता व संवर्धन अभियान

दि. २३ फेब्रुवारी २०२०, स्थळ : किल्ले सिंहगड, ता. हवेली, जि. पुणे

सहभागी स्वयंसेवक नावनोंदणी



महाविद्यालयाचा रासेयो क्र.	कार्यक्रम अधिकारी नाव		
महाविद्यालयाचे नाव	संपर्क		
सहभागी स्वयंसेवक संख्या	स्वच्छता अभियान ठिकाण	किल्ले सिंहगड	
क्र.	स्वयंसेवकाचे नाव	संपर्क	स्वाक्षरी
१	Shreaddhe R. Uphad.	9607228080	
२	Anushka. A. Sahle	9604646563	Anushka
३	Sakshi. R. Pawar	7768864284	
४	Ashinav. V. Shamale	7720075144	
५	Chashit. G. Das	9890499652	
६	Shubhal. S. Lakkar	7709166805	
७	Mahesh. A. Dhatar	8668767650	
८	Sakshi. D. Khetre	8668767650	
९	Hirbhagat Rubika Dilip.	8380733592	
१०	Devashish. B. Vishwakarma	9067484030	Devashish.
११	Aishwarya. Mulge	91872282549	
१२	Kalpana Malu.	9307312980	
१३	Pratiksha Shinde	9579617946	
१४	Johnson Cravhane	9730827170	
१५	Janaki Chakraborty	9445941100	



Principal

V. U. College of Commerce
Pimpri, PUNE - 411017



Jai Hind Sindhu Education Trust's
MANGHANMAL UDHARAM COLLEGE OF COMMERCE

PIMPRI, PUNE - 411 017.
(Affiliated to Savitribai Phule Pune University, Pune)

NAAC Reaccredited 'B++'
☎ : 9028004422

Dr. Vinita Basantani (M.A., Ph.D.)
Principal

Ref. No. : 267 (A) / 2021-22

Date : 24/02/2022

To,
Narendra Bhagwat,
Member of Vasundhara Abhiyan
Pune-411044.

Sub.: Letter of Gratitude

Dear Sir,

We are extremely thankful for accepting and delivering a guest lecture on Importance of Butterfly conservation for ecosystem on 19/02/2022. We hope to get co-operation from you in future as well.

Thanking You



V. Basantani
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.

V. Basantani
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017

PR No. ID : PU/PN/C/045/1983
AISHE Code : C-41934-2018

✉ mucc17@rediffmail.com
🌐 www.mucollege.edu.in

Manghanmal Udharam College of Commerce

National Service Scheme

Special Winter Camp 2021-2022

Date : 18/02/2022 To 24/02/2022 Place : Akurdi

Sr.No.	Name of the Volunteers	Class	Date						
			18/2/2022	19/2/2022	20/2/2022	21/2/2022	22/2/2022	23/2/2022	24/2/2022
1	Dipali Takalkar	F.Y.B.Com.	Dipali	Dipali	Dipali	Dipali	Dipali	Dipali	Dipali
2	Vaishnavi vitthal waghmare	F.Y.B.Com.	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
3	Sajan kamble	F.Y.B.Com.	Sajan	Sajan	Sajan	Sajan	Sajan	Sajan	Sajan
4	Mayur Chetwani	F.Y.B.Com.	Mayur	Mayur	Mayur	Mayur	Mayur	Mayur	Mayur
5	Harshada Arjun salunkhe	F.Y.B.Com.	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada
6	Jidnyasa gautam	F.Y.B.Com.	JIDNYASA	JIDNYASA	JIDNYASA	JIDNYASA	JIDNYASA	JIDNYASA	JIDNYASA
7	Sakshée, mohan kotkar	F.Y.B.Com.	Skotkar	Skotkar	Skotkar	Skotkar	Skotkar	Skotkar	Skotkar
8	Aditi Jaiguru Mahulkar	S.Y.B.Com	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.
9	Pratigya singh	F.Y.B.Com.	Pratigya	Pratigya	Pratigya	Pratigya	Pratigya	Pratigya	Pratigya
10	Vivek Uttekar	F.Y.B.Com.	Vivek	Vivek	Vivek	Vivek	Vivek	Vivek	Vivek
11	Pooja Shashikant Tambore	S.Y.B.Com	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
12	Sahil Prashant Lunawat	S.Y.B.Com.	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil
13	Gauri More	F.Y.B.Com.	More	More	More	More	More	More	More
14	Nandini Vyanktesh Parandkar	S.Y.B.Com							
15	Akanksha Baban Shrangare	F.Y.B.Com.	Akanksha	Akanksha	Akanksha	Akanksha	Akanksha	Akanksha	Akanksha
16	Sakhare Rutuja Dilip	S.Y.B.Com	Rutuja	Rutuja	Rutuja	Rutuja	Rutuja	Rutuja	Rutuja
17	Pande Pranali Anil	S.Y.B.Com	Pande	Pande	Pande	Pande	Pande	Pande	Pande
18	Ashwini Adinath Suryawanshi	S.Y.B.Com	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini
19	Sakshi Rakshe	F.Y.B.Com.	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
20	Sakshi lande	F.Y.B.Com.	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
21	simran nandlal punjabi	F.Y.B.Com.	Simran	Simran	Simran	Simran	Simran	Simran	Simran
22	Piyush Satish Nimse	F.Y.B.Com.	Piyush	Piyush	Piyush	Piyush	Piyush	Piyush	Piyush

Bao

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Report

Pandharpur Wari June 2022

On 21st June, 2022 Pandharpur Wari arrived at Akurdi. Students welcome the wari at Nigdi chowk. Cleanliness activity was conducted at Nigdi.

On 22nd June Cleanliness drive was conducted at Ambedkar chowk. Students cleaned the area and collected wrappers, plastic bottles etc. and interacted with the warkaris.

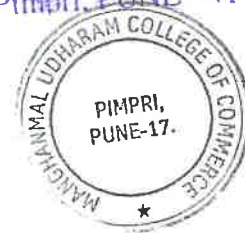
On 23rd June Students went to Savitribai Phule University to attend the University Palakhi program. A drama on shoot of Rand by The Chapekar brothers, Damodar and Balkrishna. After the drama the program of worshipping the Palakhi took place. The SPPU Palakhi journey started at 12 pm.

The guest for the SPPU program were Vice Chancellor Prof. Dr. Karbhari Kale, Pro Vice Chancellor Dr. Sonawane, Chief Election Officer Dr. Shrikant Deshpande, Registrar Dr. Prafulla Pawar, Maharashtra liaison Officer Dr. Prashant kumar Vananje. 24 students attended the program.

Leena
Dr. Leena Modi
(NSS P.O.)



Raw
Principal
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MANGHANMAL UDHARAM COLLEGE OF COMMERCE, PIMPRI

ATTENDANCE SHEET OF SWATCH WARI, SWASTHA WARI, NIRMAL WARI, HARIT WARI AND CORONA MUKTA WARI 2022

NSS Code: A-25

NSS P.O. Dr. Leena Modi

Sr.	Name	21-06-2022	22-6-2022	23-06-2022
1	Rajakta Tatar	Riate	Riat	Riat
2	Piyush Nimse	Piyush	Piyush	Piyush
3	Mayur B. chetwani	Mayur	Mayur	Mayur
4	Aditi J. Mahulkar	Aditi	Aditi	Aditi
5	Nandini V. Parandkar	Nandini	Nandini	Nandini
6	Rutuja D. Sakhare	Rutuja	Rutuja	Rutuja
7	Akanksha A. Kajale	Akanksha	Akanksha	Akanksha
8	Ashwini Suryawanshi	Ashwini	Ashwini	Ashwini
9	Johnson Gavhane	John	John	John
10	Vicky Das	Vicky	Vicky	Vicky
11	Rohit Gambhir	Rohit	Rohit	Rohit
12	Aniket Nigade	Anigade	Anigade	Anigade
13	Rutuja Sandhor	Rutuja	Rutuja	Rutuja
14	Snehal hatkar	Snehal	Snehal	Snehal
15	Neha shinde	Neha	Neha	Neha
16	Avinash Kalapare	Avinash	Avinash	Avinash
17	Isakshi V. Mane	Isakshi	Isakshi	Isakshi
18	Roshan Gupta	Roshan	Roshan	
19	Devashish Vishwakarma	Devashish	Devashish	Devashish



V. B. Patil
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.

Swachh Wari, Swastha Wari, Nirmal Wari, Harit Wari and Corona Mukta Wari: 21st to 23rd June 2022



Leena
Dr. Leena modi
NSS P.O.



Raw
Principal
M. U. College of Commerce
Pimpri, PUNE - 411 017.



सत्यमेव जयते

Certificate



This is to certify that **M.U. COLLEGE OF COMMERCE** is now Recognized as Swachhta Action Plan Institution. The Institution has successfully formed the Swachhta Action Plan Committee and constituted the working groups Post COVID-19 for Sanitation & Hygiene, Waste Management, Water Management, Energy Management and Greenery along with the observation of two environment related days to inculcate in faculty, students and community, the practices of Swachhta and Reduction, Reuse and Recycling of Resources.



Dr. W G
Dr. W G Prasanna Kumar
Chairman



Mahatma Gandhi National Council of Rural Education
Department of Higher Education, Ministry of Education
Government of India

V Rao
Principal

M. U. College of Commerce
Pimpri, PUNE - 411 017.