

GREEN AUDIT CERTIFICATE

This is to certify that Green Audit has been successfully completed by M/s. Saur Engineers & Consultants Pvt. Ltd. Empanelled Energy Auditor(CLASS-A) MEDA, Government of Maharashtra and an ISO 14001:2015 company and suggestions for improvements have been given. The Audit activity has been executed for beneficiary with following Details:-

**Uran Education Society's College of Management & Technology
Palak Maidan, Bori, Uran Maharashtra**

Date of Audit: 20/05/2023

Assessment Period: 2021-2023 Valid till: 19/05/2024




ANUP A. SAMANT
TECHNICAL DIRECTOR




ASHUTOSH V. THAKUR
MANAGING DIRECTOR

Saur Engineers & Consultants Pvt. Ltd.

Registration No: EA-28 MEDA/ECN/2023-24/Class-A/EA 28

Empanelled Energy Auditor-CLASS A, MEDA, Government of Maharashtra

The report is generated from data, information, answer to asked questions, standards and procedures defined by different and concerned authorities time to time, available site condition, weather condition, operational and availability conditions provided by beneficiary on the day of survey. If any changes on above said measures on any other parameters affecting these measures may lead to change, alter, in-corrections even falsifying calculations, results, recommendations and suggestions. The values, figures, amounts mentioned are indicative to the site situation and condition; it may not reflect each and every aspect of it. The report is generated restricted to given scope and available conditions and measures.



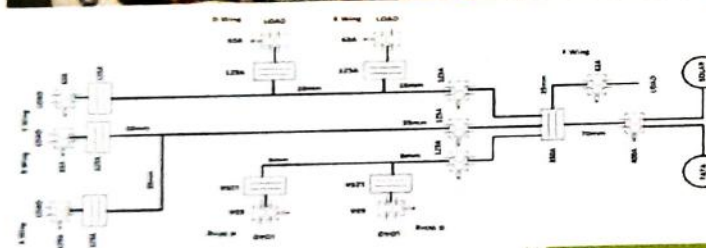
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- Liasoning
- Energy Audit
- Safety Audit
- Electrical Projects
- Solar Projects

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 PUNE COLLEGE OF MANAGEMENT & TECHNOLOGY
 PUNE MIDLANDS, BORI, URAW, MAHARASHTRA



Report By

M/s. Saur Engineers & Consultants Pvt. Ltd.,
 Mumbai.

- Registered Energy Auditor
- Power Consultant
- Channel Partner-MNRE, Govt. of India.
- Channel Partner-MEDA, Govt. of Maharashtra.
- Solar Grid Engineers, NISE, Govt. of India
- Licensed Electrical Contractor,

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Detailed Report Green Audit

Project Beneficiary 2021-2023

Uran Education Society's College of Management & Technology

Palak Maidan, Bori
Uran Maharashtra

Consultants & Auditor

SAUR Engineers & Consultants Pvt. Ltd.

REGISTRATION NO. : EA-28

D-8, Plot No. 108, Akshay, Rsc-16,
Gorai-1, Borivali (west), Mumbai-400092
MAHARASHTRA
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Acknowledgement

This is to certify that Detailed Green Audit has been successfully completed by M/s. Saur Engineers & Consultants Pvt. Ltd. Empanelled Energy Auditor(CLASS-A) MEDA, Government of Maharashtra and an ISO 14001:2015 company.

This activity is jointly executed by auditor and beneficiary to account greenery conservation opportunity without sacrificing its purpose. The main object was to assess the existing system for greenery diversity, High quality, professional and sustainable green management, Adopt best practices and Standard operating procedures.

Beneficiary premise is a leading educational service utility in semi-urban area. The college is run as per the norms and standards and having awareness and approach towards energy saving. The management and staff are keen on saving greenery on every opportunity available.

We sincerely acknowledge efforts of Management and staff members for smooth execution of audit process. We sincerely acknowledge the leaders and guides of the activity who helped to design and supported to the execution of the process

Mrs. Sonali Mhatre, Principal and Team Head
Dr. Minakshi Gupta, Team Member, Teaching
Ms. Manali Haldankar, Team Member, Teaching
Ms. Neha Varma, Team Member, Non-Teaching
Mr. Sairam Pradhan, Team Member, Student
Mr. Anil Mhatre, Team Member, Electrician
Mr. Ajay Kumar Yadav, Team Member, Helper
Mr. Kishor Shama, Team Member, External expert
and all other technical, teaching, non-technical staff and students of college.

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Certificate

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Name of Beneficiary: Uran Education Society's College of Management & Technology
Registration Number: F-173 COLABA
Address: Palak Maidan, Bori, Uran Maharashtra
Contact Person: Dr. Minakshi Gupta
Contact Number: 8108214659
Date of Audit: 20/05/2023

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Sign & Seal

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1. Introduction

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of natural diversity properties of institute. It aims to analyse within and surrounding the place concerned, in purview of relationship with natural diversity around. Green audit is a valuable means for an Institution related to educational area to determine how and what natural resources or diversity of nature they are surrounded with or they are living with. Green Audit report includes assessment of premises which refers to nature friendly environment with lesser carbon emission in terms of initiatives, implementation, best practices, working environment, capacity utilization based on all above parameters observed during green audit along with conditions and benchmarks as Air Quality, Water Quality, Noise Data, Weather Data, Tree Diversity, Faunal Diversity as well as biodiversity conditions. Understanding these conditions the institution can make plans for day to day working, future expansions as well as a nature-friendly view of life while making changes and planning for savings.

It can create consciousness and awareness about natural diversities around and helps to standardize practices for working with observation of nature friendly work style. It provides better understanding of green diversity available surrounding conditions to staff and students. As the vanishing diversity of nature is becoming an increasingly important issue for the nation as well as the world, the role of higher education institute is more vital and prevalent in relation with the issue.

The rapid urbanization and economic development at local, regional and global level has led to several greenery and ecological crisis. On this background it becomes essential to adopt the system of Green Campus for the institution which leads for sustainable development and at the same time persisting the quality of the same while travelling on the growth path. The National Assessment & Accreditation Council, New Delhi (NAAC) has made it mandatory to all Higher educational institutions should submit a Green Audit Report. Moreover, it is social responsibility of a Higher educational institution to ensure that they contribute towards the saving of Green areas and maintaining good levels of qualities for natural resources available such as Air, water, atmosphere, flora, faunal, Etc.



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1.1. Objective

The green audit of an institution has becoming the paramount important for self-assessment of the Institution which reflects in the role of the institution in mitigation to current problem of reducing greenery and natural resources depletion. The institution has been putting efforts to keep clean and green atmosphere since its inception. Therefore the purpose of present green audit is to identification, quantification, recording, reporting and analysis of components of natural diversity properties of institute framework of Green atmosphere sustainability. The main objectives to carrying out the green audit are:-

- To record and document Air quality data
- To record and document Water quality data
- To record and document Weather/Meteorology data
- To record and document Noise Level data
- To record and document Tree Diversity data
- To record and document Faunal diversity data

1.2. Methodology

The purpose of Energy Audit of is to ensure that the practices followed in the campus are in accordance with the Energy Conservation Policy of the Country. The methodology includes: collection of data, physical inspection of the campus, observation and review of the documentation and data analysis.

The report is based on the documents obtained while on site, visual inspection and data collection carried out during the assessment period. All the measurements recorded on site are indicative loads and duties. All readings are collected for analysis and improvement planning. Cost estimates are indicative only as more detailed design and acceptance of suggestions will be required to improve the accuracy of these estimates.

The units are selected from SI (international standards) with meters, Celsius degrees, Etc.

1.3. Audit Statement

The building is adopting the "Energy Efficient Campus" system for Energy conservation and sustainability. There are main three pillars i.e. Energy saving by technology and Operation & Maintenance procedures, safe working on occupational health and performance and 100% inmates demonstrating energy efficiency literacy. The goal is to maintain safe working environment, reduce energy consumption, while creating an atmosphere where inmates can work and live healthy.

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2. Topography

2.1. Overview

SL No	Head	Details
1	Name of Applicant Institution	Uran Education Society's College of Management & Technology
2	Address	Palak Maidan, Bori, Uran Maharashtra
3	Contact Number	8108214659
4	Registration Certificate Number	F-173 COLABA
5	Sector Type	Education
6	Senior Management Contact	Dr. Minakshi Gupta
7	Contact Number	8108214659
8	Status of Institution (Pvt./Public)	Private
9	Company Turnover (Rs. In Lakhs)	Not Applicable
10	Number of Employees	13-15
11	Year of Establishment	2008
12	Plot Area (ft ²)	Approximate 5700 ft ²
13	No of Buildings	1
14	Building Type	RCC
15	Age of Building	20 Years
16	Leakages/Cracks on wall/roof	Minor
17	No. of workers (Footfall)	15 – 16
18	No. of Customers (Footfall)	300-350
19	Day Vs Night activity in %	Only Daytime
20	Shifts per day	1
21	Hours per shift	8
22	DG Set installed	Yes common for all premises
23	Inverter Installed	No
24	Renewable Energy System installed	No
25	(Solar/Wind/Biomass/Biofuel/Etc.)	No

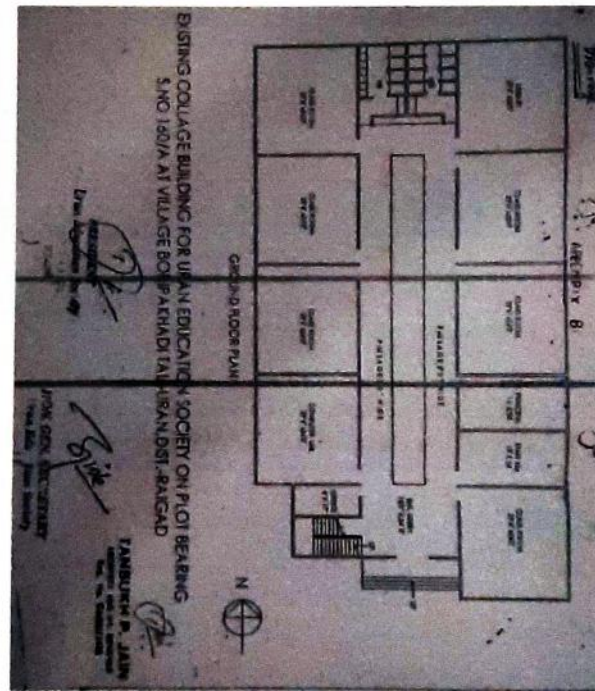
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2.2. Location

SL No	Head	Details	Remark
1	Name of Institute	UESCMT	
2	Category	College	Educational Institute
3	Address	Palak Maidan, Bori, Uran	
4	State	Maharashtra	
5	Nearest Railway Station	Panvel	Outstation
		Uran (proposed)	Local
6	Nearest Bus Station	Panvel	Interstate
		Uran	Intrastate
7	Nearest Airport	CSIA, Mumbai	
8	Longitude	18.882513	
9	Latitude	72.934656	

2.3. Layouts

Floor Map

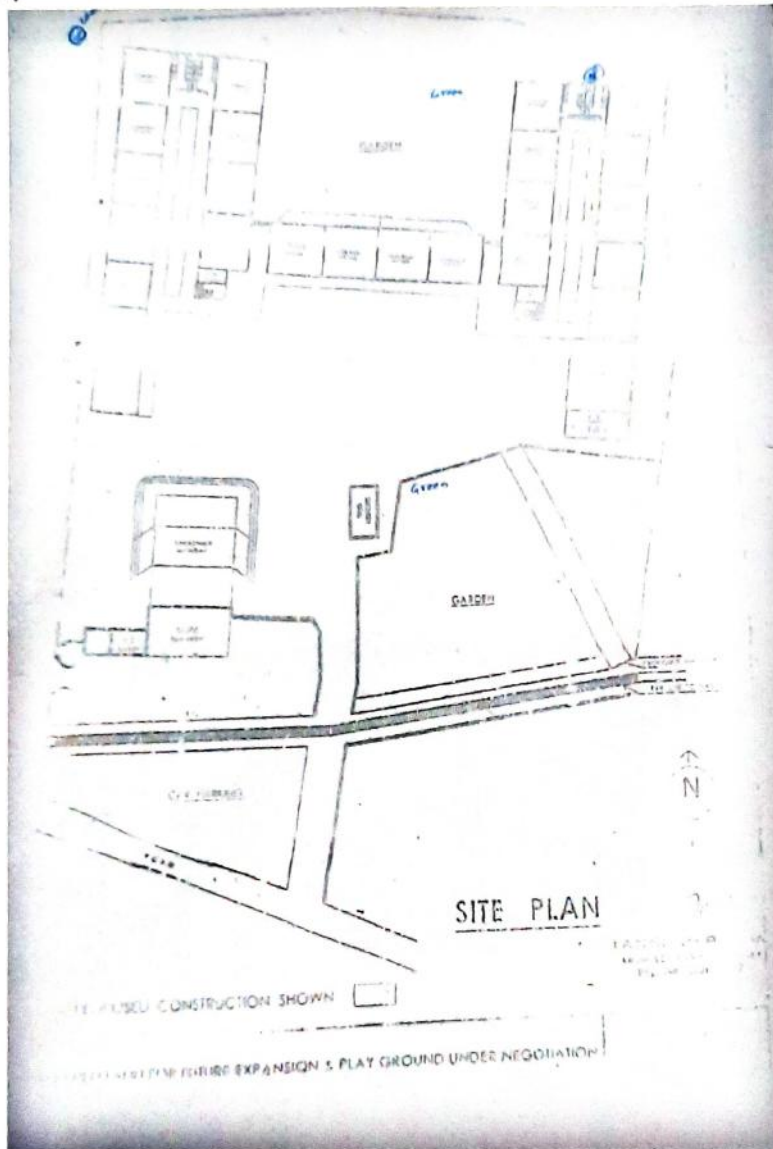




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Site Map



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Google Map



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3. Premises and Utilization

Nirmala Memorial Foundation College of Commerce and Science, a flourishing institution affiliated to the University of Mumbai made its humble genesis in 2003, through the enlightened vision and guidance of Mr. Thakurbhai Desai.

As an institution its purpose is to impart quality education to students of all creeds in general and the Gujarati Linguistic Minority in particular. The college strives to develop the intellectual powers of students and all concerned, continuously and consistently through methods that are participative, interactive and facilitative in a measurable manner; also to train them to be responsible and worthy citizens by adopting change in its path.

Uran Education Society's College of Management and Technology was thus started under the able guidance and initiative taken by then President Late Mr. Umesh Pradhan along with his able team. In the academic year 2008-2009, the college introduced three years degree programme of B.Sc. (Information Technology) which is affiliated to the very prestigious University of Mumbai.

Subsequently, three years degree programme of B.Com. was introduced in the academic year 2011- 12 to satiate the rising demand from learners interested in higher studies in the subject of Commerce.

The college has an excellent infrastructure and accessibility from various parts of the city. The college has a well-designed administrative block and various other rooms and facilities for the students such as girls' common room. College has well equipped computer lab. Each section of students has separate classrooms. Class rooms are well furnished and ventilated. Audio visual Room is provided with all teaching aids, OHP, Slide Projector, Video Player, LCD Projector, Video Camera, Multimedia Computer etc., in order to ensure overall development of students. The students have all the facilities for games and sports. Adequate infrastructure is provided for indoor and outdoor games and extra-curricular activities. Canteen is available for students in college campus.

Infrastructure:



SENIOR COLLEGE BUILDING



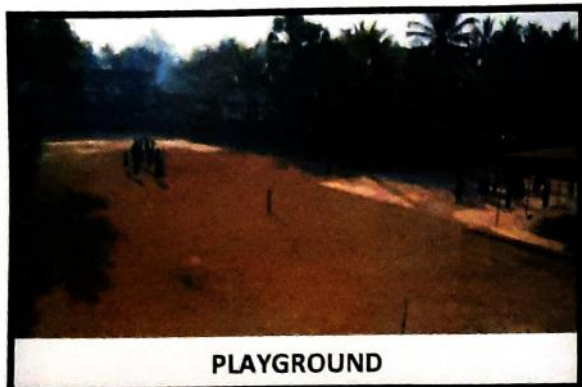
KNOWLEDGE RESOURCE CENTRE [LIBRARY]

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PLAYGROUND



COMPUTER LABORATORY



UMESH PRADHAN SIR AUDITORIUM



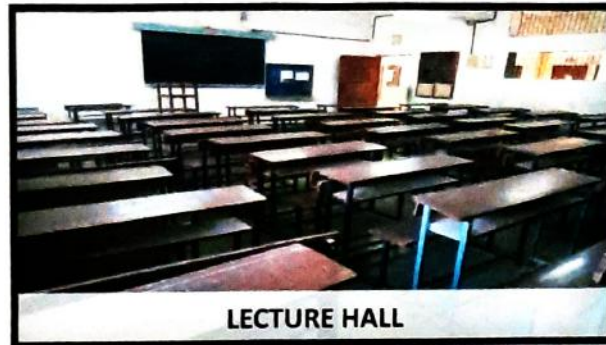
ADMINISTRATIVE OFFICE



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Class Rooms			
floor	no. of class rooms	Area (Each)	length x breath in meters (Each)
ground floor	6	70.752sq meters	8.04 x 8.80
1st floor	8	70.752sq meters	8.04 x 8.80

Toilets			
floor	no. of toilets	Area (Each)	length x breath in meters (Each)
ground floor	2	21 sqm	5.88 x 3.74
1st floor	2	21 sqm	5.88 x 3.74
1st floor	1 staff toilet	3.06 sqm	1.75 x 1.75

Library			
floor	no. of library	Area	length x breath in meters (Each)
2nd floor	1	82.76 sqm	13.59 x 6.09

Staff Room			
floor	no. of staff rooms	Area	length x breath in meters (Each)
ground floor	1	22.82 sq meters	7.98 x 2.86
1st floor	1	70.752sq meters	8.04 x 8.80

Computer lab			
floor	no. of computer labs	Area (Each)	length x breath in meters (Each)
ground floor	2	70.752sq meters	8.04 x 8.80

Principals cabin & office			
floor	office	Area	length x breath in meters (Each)
ground floor	1	70.752sq meters	8.04 x 8.80

Exam Room			
floor	Exam room	Area	length x breath in meters (Each)
ground floor	1	12.40 sq meters	4.08 x 3.04

Girls Common Room			
floor	Girls Common Room	Area	length x breath in meters (Each)
ground floor	1	9 sq meters	3 x 3
		525.85SQM	
		5659.6641 SQF	



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4. Floral Diversity

UESCMT College, which was established in the year 2008, has eco-friendly environment since then. It has long legacy of healthy environmental practices periodic awareness, preservation and maintenance. As very much common in City area the college campus is limited to its plot premises hence having less scope for plantation within. College practices awareness camps, seminars and trails to fulfil the backlog.

Details of Trees

Year	No. of Trees
2021-22	298
2022-23	60
Total	358

Area Wise Trees Details

Area 1: School Building			
Sr. No.	Common Name	Botanical Name	Quantity
1.	Rollinia	Annoma Mucosa	1
2.	Chacrana	Psychotria Viridis	2
3.	Strangler Figs	Ficus Nymphacifolia	4
4.	Pinwheel flower	Crape jasmine	1
5.	Three Kings	Pennantia Baylisiana	1
6.	Coconut	Cocos nucifera	41
7.	Palmyra palm	Borassus aethiopum	8
8.	Mango	Mangifera indica	5
9.	Jamun	Syzygium cumini	5
10.	Jackfruit	Artocarpus heterophyllus	6
11.	Guava	Psidium guajava	8
12.	Chickoo	Manilkara zapota	6
13.	Jam	Syzygium jambos	5
14.	Lemon	Citrus limon	7
15.	Aawla (Big)	Phyllanthus emblica	8
16.	Aawla (Small)	Phyllanthus emblica	2
17.	Custerd Apple	Annonaceae	5
18.	Sonchafa	Magnolia champaca	2
19.	Parijat	Nyctanthes arbor-tristis	1
20.	Neem	Azadirachta indica	3
Total			121

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Area 2: Ground			
Sr. No.	Common Name	Botanical Name	Quantity
1.	Kasaka	Corynocarpus laevigatus	1
2.	Rambutan	Nehellium Lappaceum	2
3.	Neem	Azadirachta Indica	3
4.	Aapta	Bauhinia racemosa	1
5.	Oleander	Nerium Oleander	2
6.	Blackboard Tree	Alstonia Scholaris	1
7.	Betel Palm	Areca Catechu	1
8.	Perilla	Perilla Frutescens	1
9.	Palm Tree	Arecaceae	1
10.	Garden Croton	Codiacum Variegatum	2
11.	Spineless Yucca	Yucca Gigantea	1
12.	Rose	Rosa Indica	2
13.	Tiplant	Cordyline Fruticosa	2
14.	Oriental arborvital	Platydadus Orientails	1
15.	Mogra	Fasminum Sambac	1
16.	Hibiscus	Hibiscus Rosa- sinesis	1
17.	Snake Plant	Dracaena Trifasciata	1
18.	Boxleaf	Buxus	1
19.	Sobbed Fig	Ficus elastica	2
20.	Ficus	Ficus variegata	1
Total			28

Area 3: Kho-Kho Ground			
Sr. No.	Common Name	Botanical Name	Quantity
1.	Moringa Plant	Moringa Oleifera	4
2.	Neem	Azadirachta Indica	2
3.	Amla	Phyllanthus Emblica	1
4.	Hibiscus	Hibiscus Rosa- Sinesis	1
5.	Poison Ivy	Toxicodendron Radican	1
6.	Wild Tamarind	Cojoba Arborea	3
7.	Gale of the wind	Phyllanthus Niruri	10
8.	Cluster Fig	Ficus Racemosa	6
9.	Rare White Maiden's Feather Cypress Wine	Ipomoea Quamoclit White Feather	1
Total			29

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Area 4: Administrative Building			
Sr. No.	Common Name	Botanical Name	Quantity
1.	Coconut Tree	Cocos Nucifera	7
2.	Guava	Psidium	1
3.	Naselerry	Marikara Zapota	1
4.	Mango	Mangifera indica	7
5.	Holy Basil	Ocimum Tenuiflorum	7
6.	Gul-e-Abbas	Mirabilis Jalapa	2
7.	Small Leaf spiderwart	Tradescantia Fluminersis	21
8.	Rose	Rosa	2
9.	Pardarus Vetichii	Pardanus Tectorius	10
10.	Alovera	Aloe Barbadensis miller	5
11.	Onilanensis	Dypsis Onilahensis	2
12.	Rubber	Hevea brasiliensis	1
13.	Polyscias Foruticosa	Mingaralia	3
14.	Artabotrys	Manoranjitham	2
15.	Green Ashoka Tree	Saraca Asoca	1
16.	Jasmin	Jasminum	5
17.	Hibiscus	Hibiscus	5
18.	Garden Craton	Codiaeum Veriegatum	4
19.	Yucca Aloilolia	Yucca Filamentosa	5
20.	Java Plum	Syzygium Cumini	1
21.	Curry Leaves	Murrucya koenigii	2
22.	Cactus	Cactaceae	1
23.	Sared Fig	Ficus Religiosa	1
24.	Common Box	Buxus Sempervirems	1
Total			97

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Area 5: Main Gate			
Sr. No.	Common Name	Botanical Name	Quantity
1.	Hairy fig	Ficus hirta	3
2.	Garden Craton	Gossipium herbaceum	2
3.	Areca Palm	Dyopsis lutescens	2
4.	Devils Ivy	Epipremnum avreum	2
5.	Golden Trumpet vine	Allamanda Cathartica	1
6.	Ming Aralia	Polycias Fruticosa	1
7.	Birds Nest Fern	Asplenium nidus	1
8.	Heart of Jesus	Caladium Bicolor	1
9.	Craton Plant	Codiaeum Variegatum	1
10.	Noni	Morinda Citrifolia	2
11.	Jackfruit	Artocarpus heterophyllus	2
12.	Rangoon Creeper	Combratum Indicum	2
13.	Bay tree	Bay laurd	3
14.	Hinoki cypress	Chamaecyparis obtusa	3
15.	Night Jasmine	Cestrum Nocturnum	1
Total			27

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Area 6: Parking Area			
Sr. No.	Common Name	Botanical Name	Quantity
1.	The false ashoka	Polyalthia Longifolla	1
2.	Papaya Plant	Carica Papaya	2
3.	Coconut Tree	Cocos Nucifera	1
4.	Hairy Fig	Ficus Hirta	1
5.	Thunder God Vine	Tripterygium Wilfordii	1
6.	Malvaceae	Cola Acuminata	1
7.	Rubiaceae (Noni)	Morinda Cilrifolia (Noni)	11
8.	Indian Almond	Terminalia Catappa	6
9.	Clustering Fishtail palm	Caryota Mitis	4
10.	Cedre Macho Plant	Hierdnma Clusioides	1
11.	Acacia Tree	Vachellia Nilotica	1
12.	Horse Radish Tree	Moringa Oleifera	1
13.	Mongoose Palm Tree	Dypsis Ovobontsira	1
14.	Blackboard tree	Aistonia Scholaris	1
15.	Leea Plant	Vitaceae	5
16.	Monkey Pod Tree	Samanea Saman	1
17.	Joint Fir Plant	Gnetum	3
18.	Weeping Fig	Ficus	3
19.	Tamarind Tree	Tamarindus Indica	2
20.	Mango Tree	Mangifera Indica	1
21.	Indian Hog plum Tree	Spondias Mombin	6
22.	Neem Tree	Azadirachta Indica	1
23.	Mountain Sweet Thorn	Flacourtia Montana	1
Total			56

Summary

Sr. No.	Area	Total Trees
1.	School Building	121
2.	Ground	28
3.	Kho-Kho Ground	29
4.	Administrative Building	97
5.	Main Gate	27
6.	Parking Area	56
Total		358

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5. Faunal Diversity

The college campus as very much common in Mumbai City the college is limited to its plot premises hence having no scope for plantation within. Since there is negligible plantation within and surrounding of College campus there are very less animal species were observed in including invertebrates and vertebrates (different groups like Beetle, Moth, Bug, Bird, Ant, Spider, Wasp, Millipede, Slug, Louse, Earthworm, Snail, Butterfly, Dragonfly, Grasshopper etc.).

SL No	Scientific Name	Common Name	Family	Category
1	Copelatus haemorrhoidalis	Diving beetle	Dytiscidae	BEETLE
2	Spodoptera exigua	Beet armyworm	Noctuidae	MOTH
3	Dysdercus cingulatus	Red cotton bug	Pyrrhocoridae	BUG
4	Columba livia	Rock pigeon	Columidae	BIRD
5	Streptopelia senegalensis	Laughing Dove	Columidae	BIRD
6	Pycnonotus cafer	Red vented bulbul	Pycnonotidae	BIRD
7	Passer domesticus	House sparrow	Passeridae	BIRD
8	Corvus splendens	Crow	Corvidae	BIRD
9	Phaethontidae psittaciformes	Parrot	Sturnidae	BIRD
10	Camponotus consobrinus	Banded sugar ant	Formicidae	ANTS
11	Eratigena atrica	Giant house spider	Theridiidae	SPIDER
12	Hasarius adansoni	Jumping Spider	Salticidae	SPIDER
13	Acheta domesticus	House cricket	Gryllidae	INSECT
14	Planorbarius corneus	Great ramshorn	Planorbidae	SNAIL
15	Acrida conica	Giant green slantface	Acrididae	GRASSHOPPER
16	Calotes versicolor	Indian garden lizard	Agamidae	REPTILE
17	Ratus ratus	Rat	Muridae	MAMMAL
18	Funambulus palmarum	Indian palm squirrel	Sciuridae	MAMMAL



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6. Green Approach:

Plantation Drive by the Institute:



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Cleanliness of College Campus

Venue: Sr. College Campus

No. of Participants: 57

The NSS volunteers had done campus cleaning from 09:00 am to 11:00 am. They cleaned main building area, playground, parking area etc. Maintaining a clean college campus sets a good example to students. All other students will be inspired by this act. They will avoid littering in campus and will also share it with their friends.



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Disaster Management training

Venue: Saraswati Mandap

No. of Participants: 70

Resource Person: Mrs. Rajeshwari Kori, Deputy Controller, CDC, Uran-Raigad

A mock fire and evacuation Drill involving the student and teachers, was conducted in college premises to create awareness among students about firefighting techniques and ways to respond swiftly in times of such emergency situation. It was organized to check the readiness of the school to face any such emergency during such disaster and also to make the students and staff aware about its rescue operation and its procedure.



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Swachh Bharat Campaign

Venue: Zilla Parishad School

No. of Participants: 70

College have organized Swachh Bharat Campaign in Kegaon with the motto 'ONE STEP TOWARDS CLEANLINESS'. Many volunteers took initiative towards the cleanliness of the village and also creating awareness among the village. Many villages took the forward step in keeping their village clean and hygienic. For awareness of villagers students had done paintings on walls.





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7. Suggestions:

- 7.1. Arrange Exhibitions and identification programs for students and locals to understand medicinal plants.
- 7.2. Start a planting drive with students outside campus.
- 7.3. Gift small plants or seeds/seed-balls to students leaving or going to native place and encourage them to plant at their own premises.
- 7.4. There should be display of emergency telephone number of nearest fire station, hospital and key person.
- 7.5. Generate awareness among user about environment conservation.

8. Disclaimer

The report is generated from data, information, answer to asked questions, standards and procedures defined by different and concerned authorities time to time, available site condition, weather condition, operational and availability conditions provided by beneficiary on the day of survey. If any changes on above said measures on any other parameters affecting these measures may lead to change, alter, in-corrections even falsifying calculations, results, recommendations and suggestions. The values, figures, amounts mentioned are indicative to the site situation and condition; it may not reflect each and every aspect of it. The report is generated restricted to given scope and available conditions and measures.

9. Conclusion

We hereby conclude report for "Green Audit" of the institute has been done under scope of work for "Uran Education Society's College of Management & Technology, Palak Maidan, Bori, Uran Maharashtra". Please study it thoroughly and implement recommendations and suggestions at earliest.