Supporting Documents for 7.1.3



Submitted to NAAC by



Global Institute of Management (GIM) Bhubaneswar

Campus

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TWO YEARS' FULL TIME MBA PROGRAMME

Approved by AICTE, Govt. of India & Affiliated to Biju Patnaik University of Technology, Odisha

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<u>7.1.3</u>

7.1.3: Quality audits on environment and energy regularly undertaken by the Institution.

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7.1.3

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

Options:

A. All of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

E. None of the above

Response: A. All of the above

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GREEN ADUIT REPORT FOR GLOBAL INSTITUTE OF MANAGEMENT BHUBANESWAR, ODISHA

www.gim.edu.in



Carried for the Year 2021-22

Carried Out By ELION TECHNOLOGIES & CONSULTING PVT LTD

307, 3rd Floor Local Shopping Centre, Lal Market, H Block, Vikas Puri, New Delhi - 110018

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CHAPTER-I

Introduction

Global Institute of Management is an Institution of academic excellence, established in 1996. It is approved by AICTE, Government of India and affiliated to Biju Patnaik University of Technology (BPUT), Govt.of Odisha.

GIM offers an integrated curriculum designed towards delivering quality management education. This coupled with high standards of instruction, equips students with the requisite knowledge and skill to perform effectively in a dynamic industry environment.

The institute is located in between twin city of Bhubaneswar and Cuttack and providing a perfect eco-friendly ambience conducive to academic pursuits.

The campus offers easy connectivity to National Highway and State-Art- Infrastructure facilities for academic and extracurricular activities.

List of Course Offered by the Institute:

MBA

Total Area: 2.5 Acre

• Built of Area (Block -A, Canteen, Temple): 0.5 Acre

• Green area: 2.0 Acre

M/S Global Institute of Management, Bhubaneswar shown the interest in availing the services of Elion Technologies and Consulting Pvt Ltd for conducting Green audit of their premises.

List of personal interacted during audit:

Sl.No	Name	Designation
1	Prof(Dr.) N.K. Mishra	Principal
2	Prof(Dr.) Munmun Mohanty	Dean Academic
3	Mr. Bipul Kumar	Dean Administrative

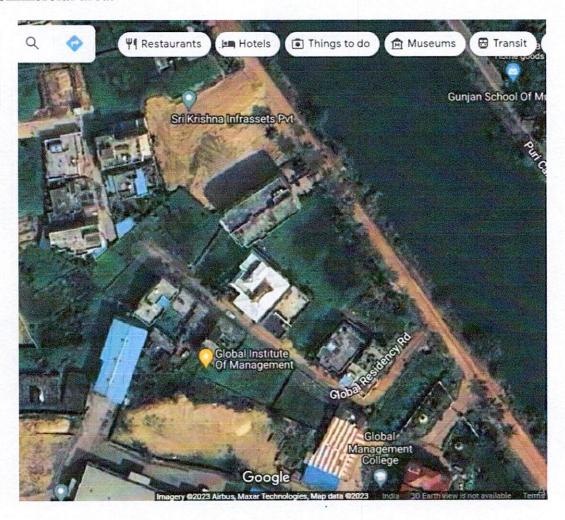
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CHAPTER-II

ENVIRONMENTAL SETTING

The land use around the campus mainly comprises of residential and commercial area.



(Google Map Location of the Institute Building)





CHAPTER-III

GREEN ADUIT

For Green Audit following 13 major areas (including their subsections) were covered and compliance/ initiatives under these areas were verified/ validated.

- a) Good Daylight Design and Ventilation
- b) Water Efficiency
- c) Wastewater Management
- d) Indoor Air Quality
- e) Energy Efficiency
- f) On-site Energy Generation
- g) Temperature and Acoustic Control
- h) Paper Waste Management
- i) E-Waste Management
- j) Canteen and Solid Waste Management
- k) Universal Access and Efficient Operation and Maintenance of Building
- 1) Green Belt
- m) Green Programs (Green initiatives)

Good Daylight Design and Ventilation:

- a) Corridors are wide with good ceiling height. All the corridors receive good daylight.
- b) Curtains are provided on some of the windows to avoid glare.
- c) Laboratories are provided with exhaust fans to disperse heat, fumes and odours.
- d) Stair cases receive daylight through windows provided at various levels.
- e) Classrooms, Labs and Library have large windows. Windows are kept open to adequate daylight.
- f) Classroom walls, corridors and labs are white-washed, this enhances the daylight received.





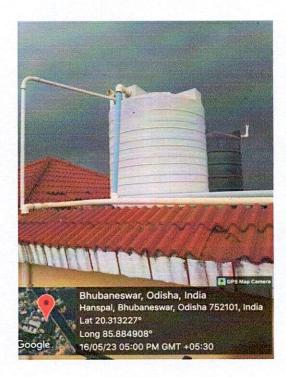


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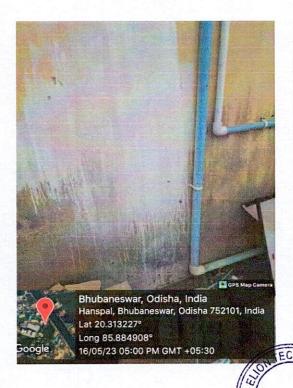
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Water Efficiency:

- a) Bore well is used for water supply in the campus.
- b) Overhead tanks are used for water storage inside the campus.
- c) For drinking water coolers are available at prominent locations in the campus.
- d) Rain water harvesting system is available in the college campus.
- e) Water conservation faucets are available in the washrooms. Installation of such faucets can save water and will help in minimizing the water footprint of the institute.
- f) Normally mops are used for floor cleaning and hose is used for cleaning once a week
- g) Dual flushing system is provided in the washrooms.
- h) Signages are provided in washrooms emphasizing water conservation.
- i) Water from air conditioning unit and reject water from water purifiers is reused within the institute







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Wastewater Management:

- a) Sewage Treatment Plant is available in the campus.
- b) Water from STP is used for gardening.



Indoor Air Quality:

Indoor Air Quality (IAQ) refers to the air quality within and around buildings and structures, as it relates to the health and comfort of building occupants. Some common indoor pollutants are listed as below:

- Molds and other allergens This may arise from water seeping into the building envelope or skin, plumbing leaks, condensation due to improper ventilation, or from ground moisture penetrating a building part.
- Volatile organic compounds (VOCs) VOCs are emitted by paints and lacquers, paint strippers, pesticides, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions etc.
- Carbon monoxide Sources of carbon monoxide are incomplete combustion of fossil fuels.
- Carbon dioxide Due to human respiration
- Particulate matter Due to construction and maintenance activities

Major observations under indoor air quality are as below:

- In classrooms the mode of ventilation is natural (through windows) and is enhanced by fans
- Green belts have been set up in campus area and the area is surrounded by lush green environment.
- Heating Ventilation and Air Conditioning (HVAC) system does not exist
- Indoor plants are seen in the College.
- IAQ awareness signage was missing in college.
- Indoor Air Quality tests have been carried out



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Energy Efficiency:

Electricity:

The electricity is supplied by TP Central Odisha Distribution Limited. The major electricity consuming equipment installed in the campus are Motor, Air conditioners, Desktops, Printers, Fans, Tube lights, LED Bulbs and Street Lights.

Observation

The institute is installed the solar power plant of 6KW for power saving.



On Site Energy Generation (usage of LPG/ Natural Gas):

• LPG is used in canteen and hotel mess for cooking.

Back Up diesel generators are available.



Temperature and Acoustic Control:

- a) White washed rooms & corridors and white/ off-white marble flooring improve the lighting conditions.
- b) The entire campus has green area.
- c) There is no noise pollution in the campus.

Paper Waste Management:

The Global Institute of Management, is a educational organisation, so waste paper is the main solid waste generated in the premises. The College has taken steps to minimize and avoid paper usage.

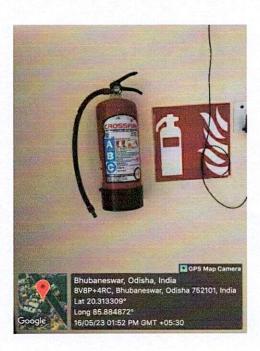
It was observed that:

- a) Prints and photocopies are taken on both sides of the pages to avoid excess paper usagetech Rather than photocopy, digitalization (scanning) is practiced.
- b) Old papers in the campus are disposed off through municipality.
- c) Paper notices are displayed on the notice boards.
- d) Internal notices and communications are through E-mail/SMS and paper both.



Universal Access and Efficient Operation and Maintenance of Building: It was observed that:

- a) Inside the building classrooms are easily accessible. Staircase is provided for staff and students.
- b) Lift is provided for specially disabled.
- c) The Fire extinguishers was provided inside the campus.
- d) There are signages for emergency fire exit present. This is of crucial importance during emergency.
- e) Since the access and staircases are wide and uncluttered, it is possible to have a safe evacuation during emergency.
- f) Fire Safety Training is given to the staff regularly.





Green belt/ Landscaping:

a) Large trees are planted in the premises. Plantation also helps maintaining lower temperatures of the area.

b) Potted plants are also kept around the campus.

c) Indoor plants are also kept along the corridors and entrance of the building.



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Green Initiatives:

It was observed that College is regularly celebrating Environment Day, Yoga Day, Festivals and other Cultural programs.





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CHAPTER-IV

RECOMMENDATIONS/ SUGGESTIONS

For Improving Energy Consumption:

To conduct energy audits in every two years so that it can help in reduction of light fittings, energy usage in the campus.

Installation of switch boards near to the door for easy on and off the fan and light in every room.

During purchase of electrical equipments always the star rating products should be considered.

In computer lab all computers can be switched off from main power connection.

Installation of automatic lights with sensors can be considered.

Signages must be displaced near every switch board.

Raise awareness program among staffs and students in monitoring energy consumption and action to be initiated.

Water Conservation:

- a) Provide information on water usage and savings to students/ staff through notices, screen savers in computer labs.
- b) Dry sweep or use a sponge broom when possible, instead of using a hose to clean floors, sidewalks, or other hard surfaces.
- c) Minimize/ reduce water usage by installing water saving faucets such as pressmatic taps, tap aerators, jet sprays etc.
- d) Grey water/ sewage recycling system can be installed for flushing toilets. This will reduce the fresh water footprint.
- e) Installation of waterless urinals can be considered to reduce water consumption.
- f) Water balance diagram can be prepared to quantify the water consumption by installing water meters at key points. Based on data gathered, appropriate measures can be taken to reduce the water consumption.

Paper and other Solid Waste Reduction:

a) Inventories of all solid waste generated in the premises must be maintained.

b) Enhance recycling. This can be done by creating a group where students can recycle books, personal clothes and other material to needy students. This can be an initiative under green program.



- c) Standard Operating Procedures (SOP) for Solid and E-waste management and for recycling of waste should be prepared & practiced. The SOP's may include collection, segregation and reuse of different types of wastes, if any (e.g. biodegradable waste for composting). This will help in safe disposal of waste to recycle agencies.
- d) The college can introduce online app, which can be useful for conducting internal exams, assignment/ reports submission. This system can also be used for displaying important notices, timetables.
- e) Paper usage shall be monitored to understand the impact of digitization in the facility.
- f) Training as well as awareness programs should be organized on segregation of biodegradable waste and recycling of waste. Efforts should be taken to inform students about recycling options and signs should be posted on appropriate bins indicating what could be dumped in each bin.



ANNEXURE- 1 INDOOR GARDENING DETAILS

Indoor plants are commonly used for their aesthetics benefits but they also have vital role reducing airborne pollution. The right choice of plants can be an excellent way of improving indoor air quality and general health. Local landscape contractor can be contacted for supply and rotation of these plants.

Plants	VOC it removes	Indoor source of VOC's	Plant care
Aloe Vera	Formaldehyde, Trichloroethylene and Benzene	Chemical based cleaners and paints	Easy to grow with enough sunlight
Bamboo Plant	Formaldehyde, Trichloroethylene and Benzene	Paints, Plastics, Wood products etc.	Thrives under low light conditions as well as easy to maintain
Chinese Evergreen	Benzene	Paints	Low maintenance plant that prefers low light conditions.
English Ivy	Formaldehyde, Benzene, Air borne fecal matter particles	Wood, Paper products, Air borne fecal – matter particles from pests	Easy to maintain



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Plants	VOC it removes	Indoor source of VOC's	Plant care
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		Han3l-12	REDITING PLAN



Elion Technologies & Consulting Pvt Ltd Certificate

This is certify that Green Audit at Global Institute of Management, Naharkanta, Hanspal, Bhubaneswar-752101 was carried out for the Academic Year 2021-22.

Campus has submitted necessary data and credentials for scrutiny. It is found that college is an oxygen tank. The college also had 100 percent rain water of roofs recharging soil and is helping in maintaining in the campus underground water table.

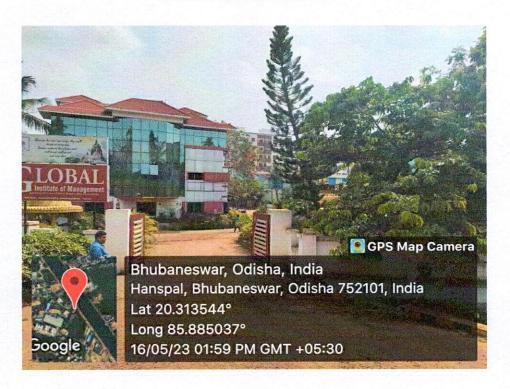
Audit Officer

Certificate Number ENV/2021/NIT



ENVIRONMENT ADUIT REPORT FOR GLOBAL INSTITUTE OF MANAGEMENT BHUBANESWAR, ODISHA

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EXECUTIVE SUMMARY

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The campus offers easy connectivity to National Highway and State-Art- Infrastructure facilities for academic and extracurricular activities.

List of Course Offered by the Institute:

MBA

Total Area: 2.5 Acre

Built of Area (Block -A, Canteen, Temple): 0.5 Acre

Green area: 2.0 Acre





CHAPTER-I

INTRODUCTION:

The term 'Environmental audit' means differently to different people. Terms like 'assessment', 'survey' and 'review' are also used to describe similar activities. Furthermore, some organizations believe that an 'environmental audit' addresses only environmental matters, whereas others use the term to mean an audit of health, safety and environment-related matters.

A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues.

Environmental Management Systems (EMS) is very popular in the industrial sector, but the general belief is that EMS is something pertaining to industries only. Other parts of the world have started adopting compatible environmental management systems either voluntarily or for promoting standards by external certification. International environmental standards do not suit the existing Indian educational system.

A very simple indigenized system has been devised to monitor the environmental performance of educational institutions. It comes with a series of questions to be answered on a regular basis. Environmental conditions may be monitored from angles that are relevant to Indian requirements, without stress on legal issues or compliance. This innovative scheme is user- friendly and totally voluntary. The environmental monitoring system helps the institution to set environmental examples for the community and to educate young learners. It can be adapted to urban and / or rural situations..





CHAPTER-II

ACKNOWLEDGEMENT

Elion Technologies and Consulting Pvt Ltd places on record it's thanks to M/S Global Institute of Management, Bhubaneswar for entrusting the task of conducting Environmental Aduit study.

We acknowledge with gratitude the whole hearted support and cooperation extended by all team members while carrying out the study.





CHAPTER-III

AUDIT OBJECTIVE

The main objectives of Environmental Audit are:

- 1. Environmental education through systematic environmental management approach
- 2. Improving environmental standards
- 3. Benchmarking for environmental protection initiatives
- 4. Reduction in resource use.
- 5. Financial savings through a reduction in resource use
- 6. Curriculum enrichment through practical experience
- 7. Development of ownership, personal and social responsibility for the Institute Campus and its environment
- 8. Developing an environmental ethic and value systems in young people





CHAPTER-IV

AREA OF IMPROVEMENT

- The institute shall prepare a Environment Policy and to be implemented.
- Electrical/Electronic Equipments when not in use should be switched off and should not be on standby modes.
- Practice of reuse of old papers during printing shall be implemented in the institute.
- Use of recycle paper should be encouraged in the campus.
- Green and Environment Audits shall be carried out on regular basis.





CHAPTER-V

ENVIRONMENTAL AUDIT - QUESTIONARE

The Audit team has prepared a questionnaire for the collection of data.

The areas of eco/environmental/green auditing to be followed/practiced by participating institutions:

I. Waste Minimization and Recycling

II. Greening

III. Energy Conservation

IV. Water Conservation

V. Clean Air

VI. Animal Welfare

VII. Environmental Legislative

VIII. General Practices

Dose any Environmental Audit conducted earlier?

No, Environment Audit is not conducted earlier.

The Population of the Institute:

SL.NO.	Student/ Staff	Number
1	Student	240
2	Teaching Staff and Non Teaching Staff	50
3	No of Visitors come to the Institute	10

Where the institute is located?

The institute is located in between Bhubaneswar and Cuttack.

Which of the following is available inside the institute?

Area	Available or Not
Garden Area	Yes
Play Ground	Yes
Kitchen	Yes
Toilets	Yes
Garbage / Waste Stock ward	Yes
Canteen	Yes
Computer Lab	Yes
Hostel Facility	Yes



Which of the following are found near your institute?

Area	Available (Yes/ No)
Municipal Dump Area	Yes
Public convenience	Yes
Sewer line	Yes
Stagnant water	Yes
Open drainage	Yes
Industry – (Mention the type)	Yes
Bus / Railway station	Yes
Market / Shopping complex / Public halls	Yes

I-WASTE MINIMIZATION AND RECYCLING

Sl.No	Questions	Remark
1	Does your institute generate any waste? If so, what are they?	Yes through Kitchen
2	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	5kg
3	How is the waste generated in the institute managed? By 1 Composting 2 Recycling 3 Reusing 4 Others(specify)	Recycling
4	Do you use recycled paper in institute?	No
5	Do you use reused paper in institute?	Yes
6	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, Please specify.	Yes through campaning.
7	Can you achieve zero garbage in your institute? If yes, how?	No Sing PVI. LTO



II-GREENING THE CAMPUS:

Sl.No	Questions	Remark
1	Is there a garden in your institute?	Yes
2	Do students spend time in the garden?	Yes
3	Total number of Plants in Campus	500
4	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	Normal Trees Herbal Trees
		Fruits Trees
5	Number of Tree Plantation Drives	Yes (One/Year)
	organized by Institute per annum. (If Any) Survival Rate	70%
6	Number of Trees Planted in Last FY.	100
7	Plant Distribution Program for Students and Community	Yes
8	Plant Ownership Program	Yes

III-ENERGY CONSERVATION:

Sl.No	Questions	Remark	
1	List ten ways that you use energy in your institute. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.	Electricity. LPG.	
2	Are there any energy saving methods employed in your institute? If yes, please specify. If no, suggest some	Yes	
3	How many CFL/LED bulbs has fitted in your institute?	100	
4	Are any alternative energy sources employed / installed in your institute? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.	Photovoltaic cells for solar energy	
5	Do you run "switch off" drills at institute?	Yes	
6	Are your computers and other equipment's put on power-saving mode?	Yes	
7	Does your machinery (TV, AC, Computer, printers, etc.) run on standby modes most of the time? If yes, how many hours?	Yes 2 hours	



IV-WATER CONSERVATION:

Sl.No	Questions	Remark
1	List four uses of water in your institute	AQUAGUARD – 1 NOS. WATER COOLER – 4 NOS. TOILETS GARDENING
2	How does your institute store water? Are there any water saving techniques followed in your institute?	Overhead Tank No
3	If there is water wastage, specify why and How can the wastage be prevented/stopped?	Generally there is no water wastage.
4	Locate the point of entry of water and point of exit of waste water in your institute. Entry- Exit-	Entry - Bore well to Overhead Tank Exit - Bath rooms & Toilets
5	Write down four ways that could reduce the amount of water used in your institute	 To use required amount of water To stop overflow To stop wastage of water Rain water harvesting
6	Record water use from the institute water meter for six months (record at the same time of each day). At the end of the period, compile a table to show how many litres of water have been used.	1000 litre per day
7	Does your institute harvest rain water?	Yes
8	Is there any water recycling System.	No



V CLEAR AIR:

Sl.No	Questions	Remar	k			
1	Are the Rooms in Campus are Well	Yes				
2	Ventilated?	1:2				
3	What is the average in afthe	1.2	Yes			
3	What is the ownership of the vehicles used by your institute? (Please underline only one)	2. <u>In</u> <u>Vo</u> 3. A Ca op	perator chicles. stitute (chicle. combin	Owned a owned a		
4	Provide details of institute-owned motorized vehicles?	Buses	Cars	Vans	Oth ers	Total
	No. of vehicles	1	4			5
	No. of vehicles more than five years old	1	-			1
	No. of Air conditioned vehicles		4			4
	PUC done	Yes	Yes			
5	Specify the type of fuel used by your institute's vehicles:	Buses	Cars	Vans	Oth	Total
	Diesel	1	1			2
	Petrol		3			3
	LPG	No	No	No	No	
	Electric	No	No	No	No	
6	Air Quality Monitoring Program (If Any)	No				
7	Students suffer from respiratory ailments? (If any)	No				nVz.
8	Details of Genset	1	Nos		(3)	CANITY



VI-ANIMAL WELFARE

Sl.No	Questions	Remark
1	List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)	NO
2	How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	NO
3	Does your institute have a Biodiversity Programme or a KARUNA CLUB?	NO

VII- ENVIRONMENTAL LEGISLATIVE COMPLIANCE;

Sl.No	Questions	Remark
1	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2	Does your institute have any rules to protect the environment? List possible rules you could include.	No
3	Dose Environmental Ambient Air Quality Monitoring conducted by the Institute?	No
4	Dose Environmental Water and Wastewater Quality monitoring conducted by the Institute?	No
5	Dose stack monitoring of DG sets conducted by the Institute?	Yes
6	Is any warning notice, letter issued by state government bodies?	No
7	Dose any Hazardous waste generated by the Institute? If yes explain its category and disposal method	No
8	Dose any Bio medical waste generated by the Institute? If yes explain its category and disposal method	No No No PVT. LTO

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VIII- GENERAL PRACTICES

Sl.No	Questions	Remark
1	Are you aware of any environmental Laws pertaining to different aspects of Environmental management?	Yes
2	Does your institute have any rules to protect the environment? List possible rules you could Include.	No
3	Is there any housekeeping schedule in your campus?	Yes
4	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes
5	Dose Important Days Like World Environment Day, Earth Day, and Ozone Day etc. eminent in Campus?	Yes
6	Dose Institute participated in National and Local Environmental Protection Movement?	Yes
7	Dose Institute has any Recognition/certification for environment friendliness?	No
8	Dose Institute using renewable energy?	Yes
9	Dose Institution conducts a Green/Environmental audit of its campus?	No
10	Has the institution been audited / accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	No No



CHAPTER-VI

RECOMMENDATIONS

- 1. Environment Policy shall be adopted by the institute.
- 2. Electrical/Electronic Equipments when not in use should be switched off and should not be on standby modes.
- 3. Practice of reuse of old papers shall be implemented in the institute.
- 4. Use of recycle paper should be encouraged in the campus.
- 5. Green and Environment Audits shall be carried out on regular basis.





CHAPTER-VII

CONCLUSION

The audit has identified several observations for making the campus premise more environmentally friendly. The recommendations are also mentioned with observations for college team to initiate actions.

The audit team suggested that the overall site is maintained well from environmental perspective. There are no major observations but few things are important which if implemented would further strengthen the environment setting in the college.

Reference:

- The Environment [Protection] Act 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- 2. The Petroleum Act: 1934 The Petroleum Rules: 2002
- 3. The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle
- 4. Rules:1989 (Amended in 2005)
- 5. Energy Conservation Act 2010.
- 6. The Water [Prevention & Control of Pollution] Act 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules 1975
- The Water [Prevention & Control of Pollution] Cess Act-1977 (Amended 2003) and Rules-1978
- 8. The Air [Prevention & Control of Pollution] Act 1981 (Amended 1987) The Air (Prevention & Control of Pollution) Rules 1982
- 9. The Gas Cylinders Rules 2016 (Replaces the Gas Cylinder Rules 1981
- 10. E-waste management rules 2016
- 11. Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- 12. The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
- 13. The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- 14. The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- 15. Relevant Indian Standard Code practices

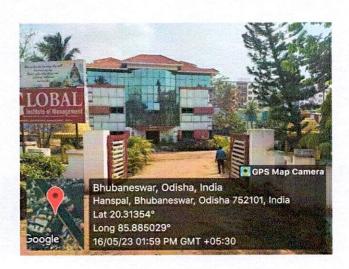




Photographs of Environment













Elion Technologies & Consulting Pvt Ltd Certificate

This is certify that Environment Audit at Global Institute of Management, Naharkanta, Hanspal, Bhubaneswar-752101 was carried out for the Academic Year 2021-22.

Campus has submitted necessary data and credentials for scrutiny. It is found that college is an oxygen tank. The college also had 100 percent rain water of roofs recharging soil and is helping in maintaining in the campus underground water table.

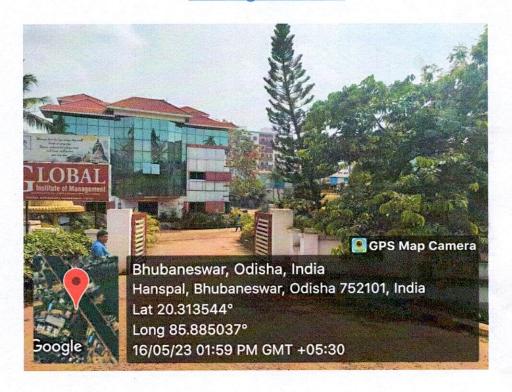
Augit Officer

Certificate Number ENV/2021/NIT



ENERGY ADUIT REPORT FOR GLOBAL INSTITUTE OF MANAGEMENT BHUBANESWAR, ODISHA

www.gim.edu.in



Carried for the Year 2021-22

Carried Out By ELION TECHNOLOGIES & CONSULTING PVT LTD

307, 3rd Floor Local Shopping Centre, Lal Market, H Block,
Vikas Puri, New Delhi - 110018

Tel: +91-11-28531884, +91-11-28541888 Web:

www.elion.co.in, Email: safety@elion.co.in



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EXECUTIVE SUMMARY

Global Institute of Management is an Institution of academic excellence, established in 1996. It is approved by AICTE, Government of India and affiliated to Biju Patnaik University of Technology (BPUT), Govt.of Odisha.

GIM offers an integrated curriculum designed towards delivering quality management education. This coupled with high standards of instruction, equips students with the requisite knowledge and skill to perform effectively in a dynamic industry environment.

The institute is located in between twin city of Bhubaneswar and Cuttack and providing a perfect eco-friendly ambience conducive to academic pursuits.

The campus offers easy connectivity to National Highway and State-Art- Infrastructure facilities for academic and extracurricular activities.

List of Course Offered by the Institute:

MBA

Total Area: 2.5 Acre

Built of Area (Block -A, Canteen, Temple): 0.5 Acre

Green area: 2.0 Acre

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CHAPTER-I

INTRODUCTION:

M/S Global Institute of Management, Bhubaneswar shown the interest in availing the services of Elion Technologies and Consulting Pvt Ltd for conducting energy audit of their premises.

This report is on the energy audit carried out M/S Global Institute of Management, Bhubaneswar. The detailed energy audit comprised of the following activities:

- Data collection of power consuming equipment's.
- A brief session on energy management was conducted to seek more inputs from the personnel engaged in operation and maintenance of electro mechanical services.
- Analysis of collected data.
- Discussion with the officials on the identified proposals.
- Discussion and reporting of the findings of energy audit with the Engineers and Management staff.

All the identified energy savings proposals have been discussed with the executives concerned before finalizing the projects.

The contents of the report are based solely on the data provided by Global Institute of Management, Bhubaneswar officials during the energy audit.

The management should implement the suggestions made in the report after verifying requisite safety aspects.

Methodology for Energy Audit:

The following is a list of general procedure and information undertaken during the energy audit:

- 1. General information of the campus.
- 2. Baseline energy description.
- 3. Past energy consumption bills which includes electricity bills.
- 4. On site data collection.
- 5. Energy analysis of different sectors.
- 6. Recommendation of energy conservation measures.

The major goal of the energy audit was to identify sources and areas of potential energy savings and cost saving throughout the Institute by measures of optimization, replacement, retrofitting, and on the other hand, to also provide recommendations on operational and maintenance practices improvements.



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CHAPTER-II

ACKNOWLEDGEMENT

Elion Technologies and Consulting Pvt Ltd places on record it's thanks to M/S Global Institute of Management, Bhubaneswar for entrusting the task of conducting energy audit study.

We acknowledge with gratitude the whole hearted support and cooperation extended by all team members while carrying out the study.



CHAPTER-III

PROCESS DESCRIPTION & ENERGY CONSUMPTION DETAILS

PROCESS DESCRIPTION:

The main area of energy consumption as observed during audit as follows:

- 1. Motor Pumps
- 2. Air Conditioners
- 3. Lighting

The main sources of energy to meet the required consumptions are as follows:

- 1. Electricity supply from Power Distribution Company (TPCODL).
- 2. DG sets of 35KVA

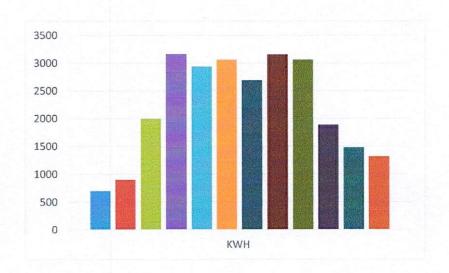
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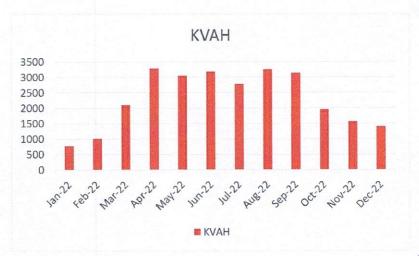
ELECTRICITY CONSUMPTION PATTERN:

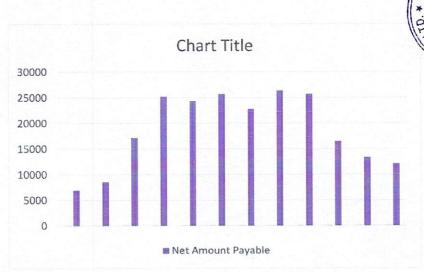
Months	KWH	KVAH	Power Factor	Net Amount Payable	
JAN-2022	697	774	0.9	6956	
FEB-2022	902	1015	0.9	8548	
MAR-2022	1998	2108	0.9	17109	
APR-2022	3163	3285	0.9	25221	
MAY-2022	2937	3049	0.9	24346	
JUN-2022	3064	3176	0.9	25698	
JUL-2022	2689	2784	0.9	22771	
AUG-2022	3154	3256	0.9	26392	
SEP-2022	3066	3140	0.9	25706	
OCT-2022	1889	1965	0.9	16528	
NOV-2022	1484	1575	0.9	13359	
DEC-2022	1318	1407	0.9	12064	

The Average Power Consumption per month is calculated at 2048KVAH or 2196.7KWHTECHN while the average amount payable per month is Rs 18724.80

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CHAPTER-IV

LIGHTING SYSTEM

The lights used inside the campus data was collected with the summary report as follows:

Type- LED/CFL/Conventional -Bulb/Tube Light	Location	Rating	Quantity	Number of Hours being Turned on
Tube Light	Ground floor	40W	5	8
Tube Light	1st floor	40W	5	8
Tube Light	2 nd floor	40W	5	8
Tube Light	Canteen	40W	4	8
LED BULB	Ground floor	20W	15	8
LED BULB	1st floor	20W	20	8
LED BULB	2 nd floor	20W	20	8

Observation:

Most of the area are lighting by using LED BULB. Conventional Fluorescent Tube lights are being used in certain location. It was informed that college has planned to replace Tube Light in phased manner with replacement of Faulty Lights with LED Tube Lights.

Recommendation:

Sticker to SWITCH OFF LIGHT and SAVE ENERGY to be displayed.









CHAPTER-V

FANS & PUMPS

Fans are used in staff rooms, class rooms, auditorium, canteen & other locations of the institute and the details are given below.

Table FAN/ Ceiling FAN	Location	Rating	Quantity	Number of Hours being Turned on
Ceiling FAN	Ground floor	75 W	30	8
Ceiling FAN	1st floor	75 W	30	8
Ceiling FAN	2 nd floor	75 W	30	8
Ceiling FAN	Canteen	75 W	10	8

Water Pumps are used for pumping of water to water tank. The details of the pumps are given below:

Water Pump	Running Hour	Any VFD	Rated Capacity in KW	Efficiency	Ampere	RPM
Submersible water pump motor	10 Hours	NO	3 KW	80.4	3.8	2700

Observation:

The Fans & Pump was functioning properly and well maintained.

Recommendation:

Time to time check the performance of the FANS and PUMP.





CHAPTER-VI

AIR CONDITIONING

Window and Split AC's are used for air conditioning. The temperature is maintained 22^o C. The detail list is mentioned below.

Type Windows/Split AC	Total Numb ers	Capacity in Ton	Whether any star rating available	Set Tempe rature	Running Hours	Whether AC performance is Satisfactory Yes/No
Window AC	5	1.5	3	22	8	Yes
Split AC	30	1.5	5	22	8	Yes

Observation:

All air conditioners are found to be functioning properly and well maintained.

Recommendation:

All doors and windows must be kept closed while using the air conditioner and the regular annual services of AC should be carried out.

GLOBAL INSTITUTE OF MANAGEMENT EHUBANESWAR

During seasonal temperature properly used the AC for Power saving.

45

CHAPTER-VII

CONCLUSION

The energy audit conducted at M/S Global Institute of Management, Bhubaneswar has revealed that campus is doing good work as a sustainable college. The institute is installed solar power plant to save energy consumption. To further reduce energy consumption, college should implement the recommendation made in report.

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Elion Technologies & Consulting Pvt Ltd Certificate

This is certify that Energy Audit at Global Institute of Management, Naharkanta, Hanspal, Bhubaneswar-752101 was carried out for the Academic Year 2021-22.

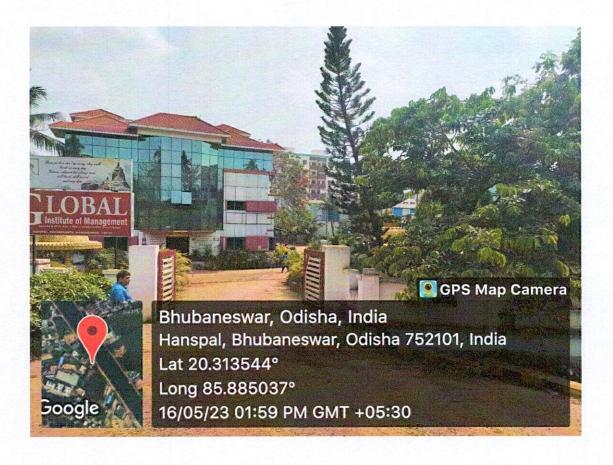
Campus has submitted necessary data and credentials for scrutiny. It is found that college is an oxygen tank. The college also had 100 percent rain water of roofs recharging soil and is helping in maintaining in the campus underground water table.

Audit Officer

Certificate Number ENV/2021/NIT



Beyond the campus environmental promotion activities





NOTICE

Date- 11.12.2022

a "Swachha Bharat Abhiyan" at Panadara Village, Bhubaneswar in collaboration with NSS, Bhubaneswar on dt. 12.12.2022. All the students and staffs are required to report at the institute at 07.80 AM tomorrow. The college bus will ply from institute to the venue. The materials required for cleaning will be provide by the institute. Students are required to carry water bottle with them. All concerns are cordially invited to participate and make it grand success.

Students Coordinators: wadhinata Samal, Satyabrata Singh Students Volunteers: Santosh Kumar Sahoo, Satyabrata Singh

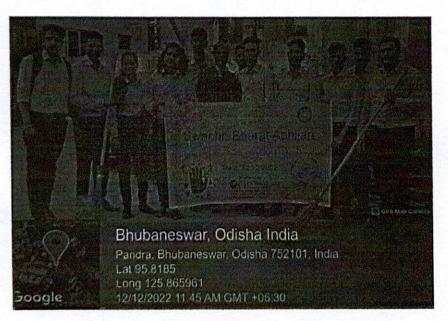
Principa

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Programme Report

Global Institute of Management conducted a Cleanliness Drive in the Pandara Village in Bhubaneswar on 12 December, 2022. 34 students accompanied by 4 faculty members formed the team for the drive. Pandara Village grew popular after the establishment of Hi-Tech Medical College and Hospital. This village is inhabited by large number of population. It turns out to be a crowded place. The volunteering teams first targeted to clean the roads followed by water bodies. It took around 1.5 hours for making the roads assume a cleaner look and then the wells and ponds of the village were targeted for the cleanliness drive. Kudos to the local people there, who voluntarily joined hands with the team for cleaning the water bodies and the peripheries as well. After completion of the arduous task, the team had its refreshment and the local people offered sweets to the students looking at their determination to work. Certificates of participation were disbursed among the volunteers and this marked the dispersal of the campaign.



Swachhat Bharat Mission dated December 12, 2022





NOTICE

Date- 28.12.2021

a "Swachhata Abhiyan" at Saraswati Sishu Mandir, Balipatana in collaboration with SBI, Rasulgarh, Bhubaneswar on dt. 29.012.2021. All the students and staffs are required to report at the institute at 07.30 AM tomorrow. The college bus will ply from institute to the venue. The materials required for cleaning will be provide by the institute. Students are required to carry water bottle with them. All concerns are cordially invited to participate and make it grand success.

Venue: Saraswati Sishu Mandir, Balipatana

Date: 29.12.2021 Time: 07.30 AM

Principal
GLOBAL INSTITUTE OF MANAGEMENT

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Report

Global Institute of Management conducted a Swachhata Abhiyaan in the premises of Saraswati Sishu Bidya Mandir, Balipatana in collaboration with SBI, Rasulgarh on 29 December 2021. The volunteering team comprised of 38 students and 2 faculty members. The school surrounding was covered with leaf debris, biscuit wrappers, cake wrappers, paper litter which warranted immediate action as the beautification aspect of the school was getting hampered. The volunteering team was divide into two groups. One group was assigned the task of clearing the leaf debris and another was allotted with the task of clearing the wrappers, litter and the like. With a continuous effort of nearly 2 hours the team managed to clean the school campus. The Headmistress of the School offered snacks and tea to the volunteers and allowed the team to deliver the school students about the importance of maintaining a healthy surrounding. Even interested school children came forward and promised that they would maintain the serenity and scenic beauty of their school campus. The drive got over and the team learnt the importance and doing and letting others learn and do.



Swachhata Abhiyan dated on 29.12.2021





NOTICE

Date- 24.11.2019

All the staffs and students hereby informed that the institute has organised a "Swachha Bharat Abhiyan" at Deolipatna Village, Bhubaneswar in collaboration with NSS, Bhubaneswar on dt. 25.11.2019. All the students and staffs are required to report at the institute at 07.30 AM tomorrow. The college bus will ply from institute to the venue. The materials required for cleaning will be provide by the institute. Students are required to carry water bottle with them.

Venue: Deolipatna Village, Bhubaneswar

Date: 25.11.2019 Time: 07.30 AM

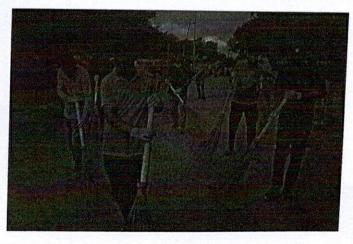
Principal
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PRINCIPAL



Report Swahha Bharta Abhiyan

It is widely witnessed that rural areas often become favourable hotspots for several air-borne and water borne diseases. Global Institute of Management and NSS conducted a green initiative on 25 November 2019 in the locality of Deoliapatna village in outskirts of Bhubaneswar. The institution team with a 32 students and 5 faculty members actively participated in the drive. The activities undertaken were cleaning the roads and water sources like wells and tube wells to maintain the hygiene conditions of the dwellers. The brooms, garbage bags, bleaching powder, surface cleansers and disinfectants were the primary treatment tools being used for the purpose. The drive consisted of two hours. Simultaneously, there was a door to door campaigning by the students to generate awareness among the villagers towards maintaining proper sanitary conditions in village for better health and security and especially they were alerted towards managing water logging issues. The village people were impressed with the dedicated efforts of the student groups and offered eatables as a token of appreciation. They also committed that they would try for a weekly cleanliness drive for the sake of community welfare. They were also urged to take proper care of common bath places and proper waste management. The small children of the village were somehow motivated towards the cleanliness drive. The Head of the Village offered special thanks to the Institution and its students for conducting such a generous drive with a cause. The students learnt the experience of dealing with typical village people with lesser awareness levels and the art of contributing towards rural development.



Swachha Bharat Abhiyan at Deolipatana Village



Date: 22.01.2021

Notice

Sub: Ban of Motor Vehicle inside the College Campus during the Working Hours.

It is hereby informed that motor vehicles are not allowed inside the campus during the working hours of the institute except its employees, physically challenged students and if anybody at health issues. It is also informed that if anybody is found violating the rules is liable to punishment as per the institute guidelines.

Principal

CC: All notice board, Staffs, Faculty members.

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Ban of Motor Vehicle inside the College Campus on 23rd January 2021



Date:01.03.2022

Notice

Sub: Celebration of VANO MAHOTSAV inside the Campus.

It is hereby informed to all staff, faculty members and students that our college is going to organise a tree plantation drive inside the campus on the occasion of VANO MAHOTSAV on 3rd March 2022 at 10 A.M . All are requested to participate in this programme without fail.

Principal

CC: All notice board, Staffs, Faculty members.

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Vano Mahotsav celebration 3rd March 2022



Date: 04.01.2022

Notice

Sub: Observation of Plastic Free Campus.

As per the UGC guideline, all the institutes in the country shall strives to make their campus 'Plastic Free Zone" for healthy environment. Therefore GIM has decided to observe a "Plastic Free Campus" drive from dated 06.01.2022 to 11.01.2022 during 10.00Am to 11.00 AM.

The following faculty members will coordinate with their students to make it successful.

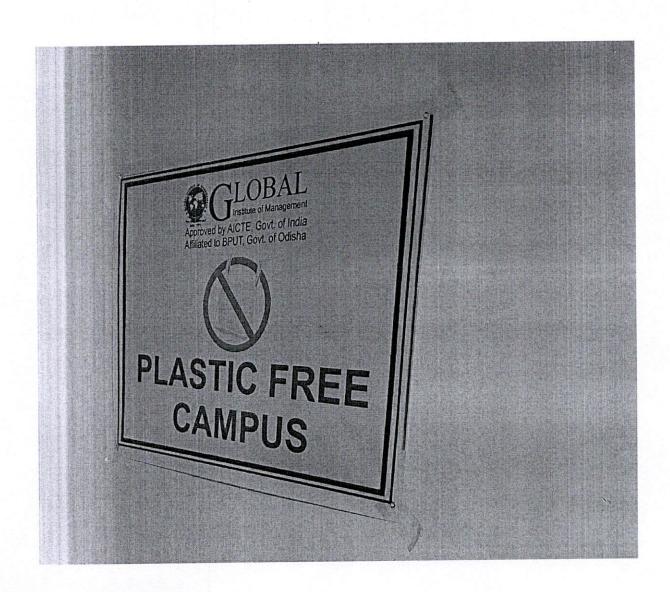
Mr. G.S. Moharana

Mr. Manoj Kumar Behera

Principal

CC: All notice board, Staffs, Faculty members.

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Observation of Plastic Free Campus Drive

from dated 06.01.2022 to 11.01.2022



Date: 03.05.2019

Notice

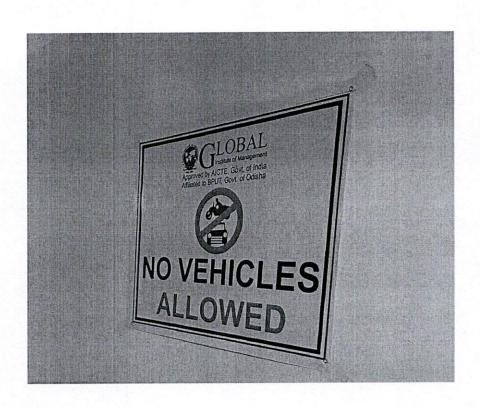
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Principal

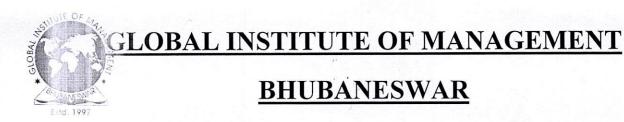
CC: All notice board, Staffs, Faculty members.





Observation Ban of Motor Vehicle inside the College Campus On 04th May 2019





Date:02.03.2018

Notice

Sub: Celebration of VANO MAHOTSAV outside the Campus.

It is hereby informed to all staff, faculty members and students that our college is going to organise a tree plantation drive outside the campus on the occasion of VANO MAHOTSAV on 3rd March 2018 at 10 A.M. All are requested to participate in this programme without fail.

Principal

CC: All notice board, Staffs, Faculty members.

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VANO MAHOTSAV on 3rd March 2018 outside the campus

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