

MALWANCHAL UNIVERSITY, INDORE
(A Private University Established by the Madhya Pradesh Niji Vishwavidyalay Adhiniyam No. 17 of 2007)
Registration no. :MPPU20

Green Audit Report

PART- A

Please answer the following questions. Please provide as much details as possible.

Control objective	Control(s)	Compliances (Please answerYes/No). If Yes please explain the process and procedure.				
Maximize the proportion ofwaste that is recycled & minimize the quantity of non-recyclable refuse	Reduce the absolute amount of waste that it produces from collegekitchens, buttery, staff offices and student accommodation.	Agreement Log book collection	Process –Plastic ban, printing done on both sides of paper, Information sharing online – mail, whatsapp. Raw food material is ordered according to requirement; Cooked food items are prepared in appropriate quantity to minimize waste.			
Make full use of all recycling facilities provide by City Municipality and private suppliers, including glass, cans, white, colour and brown paper, plastic bottles, batteries, print cartridges, cardboardand furniture.		Agreement MOU Policy	Glass, Cans, white colour and brown paper, plastic bottles batteries, print cartages card board and furniture are handed over to authorized vendor for recycling.			
Maximize the proportion ofwaste that is recycled & minimize the quantity of non-recyclable refuse	Compost, or cause to be composted, all organic waste, green waste and un-recycled cardboard produced in or collected from kitchens, gardens, offices and rooms.	Compositions pit	All organic waste, green waste (vegetable peels, fruit peels, leave& dried flower a plants from garden, kitchen waste un-recycles cardboard collected from different area is atomized for composting. compost is used to maintain gardens.			
Maximize the proportion ofwaste that is recycled & minimize the quantity of non-recyclable refuse	Recycle or safely dispose of whitegoods, computers and electrical appliances.	Croma	White goods, computers and electrical appliance which can't be used further are handed over to authorized vendor.			

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Sram Moradhot, Post Bawelia Khare
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avoid unnecessarypackaging where possible. Maximize the proportion ofwaste that is recycled & minimize the quantity of are both suitable and available.		Instructions	Reusable contains are used to store gains to unnecessary packaging avoided, paper, cups, plates are used to minimize plastic waste.
Maximize the proportion ofwaste that is recycled & minimize the quantity of non-recyclable refuse		Paper bags, Paper cups	Use of paper &paper cups is encourage, use of polythin bags for packing is banned.
Maximize the proportion ofwaste that is recycled & minimize the quantity of non-recyclable refuse	Provide sufficient, accessible and well-publicized collection points forrecyclable waste, with responsibility for recycling clearly allocated.	Collect Point	Specific arrangements are done for cultural events, seminar any conferences etc with due precaution not to are plastic water bottles. Papers waste is food were minimized

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Maximize the proportion ofwaste that is recycled & minimize the quantity of non-recyclable refuse	Make specific arrangements for events, such as cultural Events, internal and external seminars and conferences, where significant recyclable waste is likely to be produced, in order to both minimize the waste produced and maximize what is recycled/reused.	Supervisor Duty Log book Collection Centre Entry register				
Control objective	Control(s)					
Maximize the proportion ofwaste that is recycled & minimize the quantity of non-recyclable refuse	Promote reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives.	Training posters , in unlike letter	Guest lectures, training sessions poster completion role plays are organized for students and staff to create awareness to promote use greens items and waste recycling.			
Maximize the proportion ofwaste that is recycled & minimize the quantity of non-recyclable refuse	Dispose all waste, whether solid orotherwise, in a scientific manner and ensure that it is not released directly to the environment.	Biomedical waste is first decominationed as per then disposed off NABH guidelines by Hoswin company.	Collection, segregation and disposal of asbiomedical waste is done as per guidelines of NABH by HOSWIN Company general waste is disposal properly			
Reduce energy consumption, especially of energy derived from fossilfuels,	Support renewable and carbon- neutral electricity options on any energy-purchasing consortium, withthe aim of supplying all college properties with electricity that can be attributed to renewable and carbon-neutral sources.	reduction, thus areas well illuminated by day light, lights are switched of, All	panels, LED bulb are used an weilluminated areas by day light. All light are switched off. Electricity operate appliances not in case should unplugged.			
Reduce energy consumption, especially of energy derived from fossilfuels,	Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral electricity.	MPEB Letter	Electricity is purchased from MPEB			
Reduce energy consumption, especially of energy derived from fossilfuels,	Look in to the possibility of on-sitemicro-generation of renewable electricity.	Solar power is used document	Energy delivered from fossil; fuels is discourage and solar panels is used			

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energy derived from fossilfuels,	Give preference to the most energy efficient and environmentally soundappliances available, this includes only using energy-saving light bulbs.	LED lights &Evidence	Energy saving appliances is purchased.

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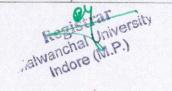
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Control objective	Control(s)		
Reduce energy consumption, especially ofenergy derived from fossilfuels,	Provide energy efficient heating systems, with adjustable controls for individual heating appliances wherever possible, and ensure that comprehensible instructions are available to staff and students on the use of heating controls.	Geysers , Healers, Boilers	In Hostels common grysers are provided for winter students are instructed not are individual heater
Reduce energy consumption, especially ofenergy derived from fossilfuels,	Encourage staff, students and conference guests to save energythrough visible reminders, incentives and information to increase awareness. This particularly concerns turning offelectrical appliances when not inuse in both communal and residential rooms.	Awareness training, posters visible reminders	Visible reminder in form of notice are parted on notice boards in hostels, guest house, offices, hospital to put off the electric appliances when not in use supervisors take rounds daily.
Reduce energy consumption, especially ofenergy derived from fossilfuels, Monitor and understand the importance of dissources of college energy consumption, and suppropriate and measurable targets for a reducertain areas of consumption and/or in theoretically consumption of energy.		Energy audit sources of consummation	Energy Consumption audits is done by members of environment green audit comity to document energy consumption of constituent units &appropriate measles are taken to reduce conceptually
Reduce energy consumption, especially ofenergy derived from fossilfuels,	Conduct switch off drills at regularintervals.	Mock Drill	Floor coordinators and supervisors are trained to switch off the lights where not needed at regular intervals
Reduce energy consumption, especially ofenergy derived from fossilfuels,	Ensures that all electronic and electrical equipment's, such as computers, are switched off whennot in use, and is generally configured in power saving modewhen such option is available.	Instructions Posters	Electronic appliances and computers are unplugged when not in are
Reduce energy consumption, especially ofenergy derived from fossilfuels,	If there are equipment's running onstandby mode, reduce the energy consumption on standby mode or minimize the running of equipment's on standby mode.	Instructions	Instructions are issued to operates to minimize the running of equipments on stand by mode.

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Ensure that improvements, purchases and developments are environmentally sound	Seek and act upon professional advice in order to minimize the adverse environmental impact of any new developments and exceed government regulatory requirements. This includes efficient heating and water systems, appropriate space for recycling, and the use of recycled and/or sustainable building materials where possible.	SOP - STP/ETP	Recycling is done STP and ETP are provided by organization		
Control objective	Control(s)				
Ensure that improvements, purchases and developments are environmentally sound	Purchase efficient and environmentally sound appliances in order to fulfill the commitments in section 2, and consider replacingold stock with 'greener', more efficient alternatives.	Purchase	Latest energy saving appliances are used and old equipments are replaced regularly		
Ensure that improvements, purchases and developments are environmentally sound	Purchase food that has been produced and delivered with minimal impact on the environment, this includes buying locally produced, organic and free-range food wherever possible.	Organic Vegetable Purchase	Food materials are processed from locally. Organic vegetables are used.		
Ensure that improvements, purchases and developments are environmentally sound	Optional [Investigate and understand the environmental impact of college investments. This implies a preference against companies whose 'core activity' contributes to: 1. Global warming through the extraction or production of fossil fuels, 2. the manufacture of chemicals which are dangerous or persistent in the environment, 3. The unsustainable harvest of natural resources.	XI A	Not Applicable		
Minimize the use of unsustainable transport Make available information about bicycle and pedestrian routes, public transport services and car share schemes to staff and students. Minimize the use of unsustainable transport Reduce the proportion of travel onCollege business carried out in private transport and eliminate		No allowances BUS Car share No glass	For students and staff transport buses are used. For faculty common vehicles are used.		
		7.0 5.033	Transport incharge maintains log books to monitor vehicles are efficiently unnecessary use is avoided.		

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Unnecessary and inefficient use of college vehicles.	Monitociy of are glass ,logbooks	
Promote car sharing / car pool among the students and facultymembers.	car pool	Faculty and staff are encourage our car pooling.
Repair sources of water leakage, such as dripping taps and showersas quickly as possible.	water leakage tap repair report	Supervisors take daily rounds of all areas to identify any water leakage and immediate repair is tou
consumption.	Pressure tap to	Pressure taps are used to reduce water wastage.
Minimize consumption ofwater. Encourage a decrease in water usage among staff, students andconference guests. Purchase the most efficient washingmachines and dishwashers availablewhich have an economy setting as default.		Students, faculty members are visitors are made aware to decrease water consummation.
		In laundry good quality washing machines are used
Control(s)		
Use an efficient and hygienic waterstorage mechanism is to minimize the loss of water during storage.	Storage tanks, cleaner RO protocol purifier	Efficient and hygienic water storage is done as per NABH guidelines storage tanks are and RO system are legally cleaned.
		RO Filtration is serviced regularly
Install Water recycling mechanism, such as rain water harvesting system.	water harvesting	Water harvesting and recycling is practical
	Promote car sharing / car pool among the students and facultymembers. Repair sources of water leakage, such as dripping taps and showersas quickly as possible. Install appliances which reducewater consumption. Encourage a decrease in water usage among staff, students andconference guests. Purchase the most efficient washingmachines and dishwashers availablewhich have an economy setting as default. Control(s) Use an efficient and hygienic waterstorage mechanism is to minimize the loss of water during storage. Minimize wastage of water and use of electricity during water filtration process, if used, such as RO filtration process and ensure that theequipment's used for such usage, are regularly serviced, and the wastage of water is not below the industry average for such equipment's used in similar capacity. Install Water recycling mechanism, such as rain water	Promote car sharing / car pool among the students and facultymembers. Repair sources of water leakage, such as dripping taps and showersas quickly as possible. Install appliances which reducewater consumption. Encourage a decrease in water usage among staff, students andconference guests. Purchase the most efficient washingmachines and dishwashers availablewhich have an economy setting as default. Control(s) Use an efficient and hygienic waterstorage mechanism is to minimize the loss of water during storage. Minimize wastage of water and use of electricity during water filtration process, if used, such as RO filtration process and ensure that theequipment's used for such usage, are regularly serviced, and the wastage of water is not below the industry average for such equipment's used in similar capacity. Install Water recycling mechanism, such as rain water water leakage tap repair report water leakage tap repair report water leakage tap repair report Training awareness Laundry machines document Storage tanks, cleaner RO protocol purifier RO servicing Record

Gram Morodhat, Post Bawalia Khure Nemawar Road, INDORE-452 014

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Minimize the use ofchemical pollutants	Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment, i.e. are biodegradableand non-toxic, even where this exceeds the Control of Substances Hazardous to Health (COSHH) regulations.	cleaning products list MSDS	To minimize chemical pollution bio degradable non toxic cleaning materials are used as per recommendation of NABH		
Minimize the use of chemical pollutants	Minimize the use of fertilizers and pesticides in college grounds, opting for the use of compost produced on site wherever possible.	Pest control report MSDS	Herbal pesticides are used		
Minimize the use ofchemical pollutants	Dispose the chemical waste generated from the laboratories in ascientific manner.	Harzandarss NABH chemical disposal training labs	Chemical waste from laboratories are disposed off safety		
Reduce the practice of burning plastic and other mater that emitsharmful gas on burning is prevented in the campus.		Waste burning purchase	Burning of plastic and other materials is not practiced such material is handed ones to authorized reduce for recycling		
Control objective	Control(s)		dunorized reduce for recycling		
Minimize the use of chemical pollutants	Establish a Garden in the campus.	Garden	All gardens in campus are well maintained.		
Minimize the use ofchemical pollutants	Encourage the faculties and students to plant trees in the garden.	Tree plantation in evidence			
Minimize the use ofchemical pollutants	Reviews periodically the list oftrees planted in the garden.	List of trees			
Ensure that environmentalawareness is created.	Conduct environmental awareness workshops as a part of the program.	Environmental Awareness workshops			
Ensure that environmentalawareness is created.	Conduct events such as plant trees to spread environmental awarenessamong the students.	Tree plantation campaign	Tree plantation is done by faculty /students and staff on environmental day		
Ensure that environmentalawareness is created.	Create awareness of environmental sustainability and takes actions to ensure environmental sustainability.	Environmental Awareness Lecture	Environmental Day is celebrated to create awareness amongst students& staff. Guests lecture by Padam Shri Janak Palta. Dr.Ramgulam Razdan Pro Chancellor was organized on environmental day		

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Ensure that environmental awareness is created.	Reduce the rate at which the College contributes to the depletionand degradation of natural resources.	Minimum paper and water are environmental paperless	Institutions Contribute To Minimize depletion of nature	
			resources by using them efficiently.	

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Ensure that environmentalawareness is created.	Promote environmental awarenessas a part of course work in variouscurricular areas, independent research projects, and community service.	Environmental Awareness VAC	Value Added Course are conducted on environmental awareness for students of each discipline		
Ensure that the buildingsconform to green standards.	Review architecture of existing buildings and reviews ways, in consultation with experts, to reduceusage of energy for such buildings, offering greatest efficiency for energy and water usage, and reducing carbon emission.	Building electricity/water installation details	Director planning and administration Mr. R.C. Ranawat and project engineer are appointed to review ways to reduce usage of energy in each building		
Control objective	Control(s)				
Ensure that the Environmental Policy isenacted, enforced and reviewed	Establish a College EnvironmentalCommittee that will hold responsibility for the enactment, enforcement and review of the Environmental Policy. The Environmental Committee shall bethe source of advice and guidance to staff and students on how to implement this Policy.	EnvironmentalCommittee Policy	EnvironmentalCommittee is established by the university		
Ensure that the Environmental Policy isenacted, enforced and reviewed	Ensure that on the Nature Club there will be appropriate representatives of the relevant college departments and authorities – such as catering, gardening, maintenance, cleaning and finance.	Nature Club	EnvironmentalPolicy is document and implemented		
Ensure that the Environmental Policy isenacted, enforced and reviewed	Ensure that on the Environmental Committee there will be the Green Officer from an external agency who is engaged in the profession ofproviding guidance on environmental impact.	External Member	Environmental audit is done by external agencies		
Ensure that the Environmental Policy isenacted, enforced and reviewed	Ensure that the Environmental Committee will review the Environmental Policy on an annual basis, and will monitor progress and	Environmental Policy Annual review	Annual review of Environmental Policy is undertaken		

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	set measurable targets whereverpossible.		
Ensure that the Environmental Policy is enacted, enforced and reviewed	Ensure that the Environmental Policy is enforced regardless of whether its requirements exceed the mandate of the law.	Environmental Policy	Environmental Policy is implemented and monitored
Control objective	Control(s)		
Ensure that the Environmental Policy is enacted, enforced and reviewed	Require that every staff and studentmember recognizes their responsibility to ensure that the commitments in the EnvironmentalPolicy are properly put into practice.	Resaon Chart Talk	Students and staff is made aware of their responsibilities to conserve environment and follow policy of institution
Ensure that the Environmental Policy is enacted, enforced and reviewed	Ensure that an audit is conducted annually and action is taken on thebasis of audit report, recommendation and findings.	Annual Audit Schedule	Internal and External audits are conducted annually

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Fram Morodhat, Post Bawalia Khuri
Namawar Road, INDORE-452 018

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PART B

Learning Objectives

- To raise awareness about biodiversity and its role in the overall health of the planet.
- To investigate the native biodiversity of the college and surrounding community.
- To identify key aspects of local habitats and the local ecosystem that promotes biodiversity.
- To make connections between human actions and the level of biological diversity found within habitat and/or ecosystem.
- 5. To improve the biodiversity found on college grounds.
- To provide information regarding the benefits of a biologically diverse ecosystem to students, families, and the community.

Background

The audit focus is to survey the college grounds to assess the level of biodiversity of flora and fauna found within the college. Biodiversity is the web of life. There are a variety of living things that are found within the college coexisting with the activities of students and teachers. These include the trees, shrubs, smaller plants and grasses, as well as birds, mammals and small invertebrates such as spiders and insects. The aim is to quantify the area of the college covered by vegetation and to assess the amount and diversity of habitats which could support a variety of species. Students will be encouraged to devise strategies to increase the level of biodiversity in the college grounds.

Procedure

1. Base Map Investigation

Students will work in teams, where possible, to cover the entire college grounds. Any areas of grassland, bare soil, forest, and garden beds will be marked out on a base map which should include X and Y coordinates and gridlines (having gridlines will allow students to more accurately calculate college yard percentages). Also, don't forget to include a compass rose. Students can use tape measures to help complete the task. An example of a base

Proportion of the college grounds that are: a. hard surfaces:

b. college buildings:

c. grassland areas: _

d. forested areas:

e. garden beds: f. other:

%

TOTAL

100

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map is included on the lastpage.

2. Complete tables 1-3 and the Biodiversity Index

For the areas surveyed, comment on the general level and variety of habitats which support biodiversity. Identify the areas of the college grounds that are already contributing to increased biodiversity, and include any features that are already in place.

NOTE All tables may be done in a manner that best suits your student's developmental level.

- 3. The Eco-Action team should work together to gather the data needed to complete the audit.
- 4. Analyze the results and report the findings to the school community.
- 5. Formulate an action plan and be sure to monitor and evaluate along the way.
- 6. Keep this report with your records. This information will be needed when updating your college's metrics.

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TABLE 1. HABITAT HEALTH OBSERVATION SURVEY

Map Reference Plants Weeds Area														
	Layers				Native	S Company of the State of the S		Wee	ds			Area		Comments/Rati
	Herbs	Shrubs	Tree	No Ne	Few	Most	MoSt	NoNe	Some	LotS	Small	Medium	Large	
Grassland-	BOUGAINVILLA NOLINA YUCCA CARKEDIA	CHAMPA PALM TREE EUPHORBIA DURENTA BOUGAINVILLA EUPHORBIA ITLIFES FICUS LEMANTA MOGRA GUAVA BOTTLE BRUSH HEBISCUS TAGAR PLANT	PALM ITALICA EUPHORBIA PALM TREE DURENTA FICUS ARICA GULMOHAR KANER WHITE FICUS ITALIA DURENTA ANOLA BOTTLE BRUSH HEBISCUS PARAS PIPAL THUJA		at a	SOUTH AMERICA SOUTH AFRICA SOUTH AFRICA SOUTH AMERICA MEXICO AUSTRALIA MADAGASCAR MEXICO EAST ASIA ITLY MEXICO INDIA AUSTRALIA CHINA INDIA NORTH AMERICA				Re	Sie Le	This is in the second of the s		

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	ROSE ESTONIA TECOMA MORPANKHI MONEY PLANT							
Garden Beds-	BOUGAINVILLA PALM TREE HEBISCUS WHITE ROSE ROSE RED ROSE SADABAHAR MONEY PLANT MORPANKHI MOGRA DURENTA EUPHORBIA TAGAR PLANT BARAHMASI DURENTA DOM	FICUS BOUGAINVILLA FICUS CHAMPA	ALMOND MANGO	ASIA&CHIN INDIA	A			

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Survey the areas and complete the following table.

NOTE* For older students-along with the tick/check marks you place in each box you may also wish to put an approximate percentage of the area, for example- In the forestedareas section you have ticked or checked shrubs and trees under Layers, now estimate what percentage of the forested area is covered by shrubs and trees.3

TABLE 2. TREE SURVEY

Large trees (dead or alive) are nature's sky scrapers, providing food, homes and shelter for all kinds of animals. For this portion of the Biodiversity audit, your goal is to identify the habitat value of trin your campus. For each tree, determine the following:

Type of Tree	Species	Tally (i.e., Number of	Total Number
Native / Alivewithout hollows	NA	Trees) NA	NA
Native / Alive with hollows	· NA	NA	NA
Native / Dead withouthollows	NA	NA	NA.
Native / Dead with hollows	NA	NA	NA NA
Exotic / Alivewithout hollows	NA	NA	
Exotic /Alive with nollows	NA	NA	NA NA
Exotic / Deadwithout	NA	NA	NA
Exotic / Dead with hollows	NA	NA	NA NA
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TABLE 3. COLLEGE GROUNDS VERTEBRATE ANIMAL OBSERVATION SURVEY

	MammalSpecies	Evidence*(Yes/No)	Tally	Status N=Native I=Introduced	Behavior / Habitat Notes (e.g., sleeping, calling hiding, hunting, perching, etc.)
1.	Dogs, rabbit,cats,	Yes		India	Sleeping ,Hiding
2.	Wild cats	Yes		Africa	Sleeping
3.	Squirrel	Yes		America	Sleeping, Hunting
4.	Rats	Yes		China	Sleeping
	ReptileSpecies	Evidence*	Tally	Status N=Native I=Introduced	Behavior / Habitat Notes (e.g., feeding, resting aggressive, molting, hiding, moving, swimming mating, etc.)
ι.	Lizard	Yes		India	Feeding, Resting
•	Iguana, Mongoose	Yes		Jamaica	Feeding, Resting
	Amphibian Species	Evidence*	Tally	Status N=Native I=Introduced	Behavior / Habitat Notes (e.g., feeding, nesting aggressive, hiding, moving, calling, perching)
	Frogs, Toads, Crabs	Yes		Taiwan	Feeding
	Shellfish,	No		South Africa	Environment

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