

# ENVIRONMENTAL AUDIT

## QUESTIONARIES

Name of College: - Nutan Maharashtra Institute of Engineering and Technology

Addresses: - Nutan Maharashtra Vidya Prasarak Mandal Samarth Vidya sankul

Vishnupuri Talegaon Dabhade, Tal: Maval

Mobile No:

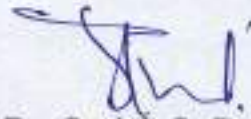
Email.ID:-

Name of coordinator: - Prof.S.A.Tayade & Prof. Kalayni Katole

Mobile No: - 8806500202 & 7391961313

Date commenced:- 1/11/2017

Date completed:- 2/11/2017



**Prof. Dr. Satish S. Patil**  
Department of Environmental Science  
Dr. Babasaheb Ambedkar  
Marathwada University, Aurangabad

Put  mark in appropriate box

What is the total strength of student and teachers in your College? (Approx)

No. of Student No of Teacher

1) UG Engineering

925

66

2) PG Engineering

03

01

Total

928

67

Which of the following are available in your college?

- 1) Garden area with Lawn .....01
- 2) Play Ground .....01
- 3) Kitchen .....01
- 4) Toilets (number) .....08
- 5) Garbage dumps (number) .....00
- 6) Laboratory .....35
- 7) Canteen .....01
- 8) Other (specify)



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Which of the following are found near your College?

Mark the level of disturbance it create for the College in a scale of 1 to 9

1) Municipal dump yard	00
2) Garbage head	00
3) Public convenience	00
4) Sewer line	00
5) Stagnant water	00
6) Open drainage ( River)	00
7) Industry - ( Sugar Industry )	00
8) Bus / Railway Station	00
9) Market / Shopping complex / Public halls	00



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## I - WASTE

1) Does your College generate any waste?

If so, what are they?

Yes

Garden waste,

Papers, box

Plastic,

2) What is the approximate amount of waste generated per day?

(In Kilograms) (Approx)

Approx	Bio degradable	Non-Bio degradable	Hazardous	Others
< 1 kg.				
2- 10 kg.	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/>
>10 kg.				

3) How is the waste generated in the College managed? By

Yes No

How

1) Composting

Nil

2) Recycling

Giving for recycling

3) Reusing

Paper print both side

4) Other (specify) Given to Got farm

Food waste from Mess

(Biological Hazardous waste)



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## Hazardous Materials

No any Hazardous material generated in chemistry lab and civil Engineering labs

- 4) How many separate boxes do you think you would need to put a class room laboratory to start a waste segregation and recycling Campaign.

18

- 5) Do you use recycled paper in College? Yes No
- 6) How would you spread the message of recycling to other in the community?  
Have you taken any initiatives? If yes, please specify Yes No
- 7) Can you achieve zero garbage in your College? If yes, how?  
Yes No



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## II - GREENING THE CAMPUS

8) Is there a garden in your College Yes  No

Do student spend time in the garden? Yes  No

List the plants with approx. numbers of each species.

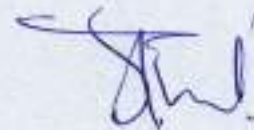
1) Numbers of plants in campus is approx. 150

9) Suggest plants for your campus. (Trees, vegetables, herbs, etc.)

Trees, Herbs

10) List the species planted by the students, with numbers.

1. Bottle Palm	45
2. Neem	03
3. Coconut	20
4. Gulmohor	07
5. Nilgiri	04
6. Pipal	03
7. Ficus	28



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### III - ENERGY

11) List ten ways that you use energy in your College.

1. Light & fans
2. Heating, Refrigeration & Air conditioning system
3. Internet & computer
4. Practical equipments
5. Pumping

(Electricity, Diesel Generators, Solar,).

Using this list, try to think of ways that you could use less energy every day.

Sr. No	Energy	Reduction of usage
1	Electricity	10 %
2	Generator	00 %
3	Solar	00%

12 Are there energy saving methods employed in your College?

If yes, please specify. Yes  No

Solar Water heaters are used in hostel

Optimum use of electrical equipment's.

LCD monitors are used in computer labs

13) How much money does your College spend on energy such as electricity, gas, firewood, etc. in a month. Record it.

Record Monthly

Month	Electricity cost	LPG Consumption	Fuel for Generator
Apr.-2017	Rs.77390	Rs.00	Rs.3500
May.-2017	Rs.89990	Rs.00	Rs.3500
Jun.-2017	Rs.86330	Rs.00	Rs.3500
Jul.- 2017	Rs.92500	Rs.00	Rs.3500
Aug- 2017	Rs.101990	Rs.00	Rs.3500

14) Are any alternative energy sources employed / installed in your College?      Yes      No

(Photovoltaic cells for solar energy, energy efficient stoves, etc.,) Specify. -

15) Do you run "switch off" drills at College?      Yes       No

Boards are displayed in each lab and class room as "Switch of light and fan when you leave"

16) Are your computers and other equipment's put on power saving mode?      Yes       No

17) Does your machinery (TV, AC, Computer, weighing balance, Printers, etc.) run on standby modes most of the time?

If yes, how many hours?

Yes

No

01	Hours
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## IV – WATER CONSERVATION

18) List four uses of water in your College

- 1) Drinking
- 2) Washrooms
- 3) Laboratories
- 4) Gardening
- 5) Cleaning

19) How does your College store water? Are there any water Saving Techniques followed in your College?

Yes  No

What are they?

- College having over head tanks with cover.

20) If there is water wastage, specify why. Yes No

How can the wastage be prevented / stopped?

- It is prevented by using push back taps and flushes.
- Wastage from the RO filters is collected in open tank and used for garden.

21) Locate the point of entry of water and point of exit of waste water in your College.

Entry Bore well

Exit- Drainage

❖ Where does your water come from? (source)

Water comes from

Bore well in the campus.

❖ Where does the waste water go?

- All wastewater is collected through underground sewers and disposed to drainage tank.

  
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22) Write down four ways that could reduce the amount of water used in your Institute.

- 1) By using push cock system
- 2) Avoid evaporation of water
- 3) Provided glass for drinking purpose
- 4) By making awareness in students to save the water

23) Does your Institution harvest rain water? Yes No   
If yes, how many rain water harvesting units are there?



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## V -ANIMAL WELFARE

- 24) List the animals (wild and domestic) found on the campus  
(dogs, cats, squirrels, birds, insects, etc.)

Dogs - 07

Cats - 03

Squirrels - 10

Horse - 02

Goat - 08

- 25) How many dogs in your area have undergone Animal Birth  
Control anti Rabis(ABC - AR)?

No information Avilable

- 26) Which is the animal welfare organization nearest to your  
College? Yes No

• Does it have an ambulance service? Yes No

- 27) Is there any incidence of animals getting wounded / affected  
due to unfavorable conditions existing in your College on  
nearby (like a dog getting wounded, poisoning of animals,  
improper caging of animals, hunting of animals, etc.)

Yes No

What did you / your College / neighbor do? Nil



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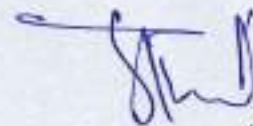
## VI - GENERAL

28) Are you aware of any environment Laws pertaining to different aspects of environmental management? Yes  No

29) Does your college have any rules to protect the environment? Yes  No

List possible rules you could include.

- Building is planned to have natural illumination and good air cross ventilation.
- Plant more trees and educate others about the positive aspects of it.
- Choose fuel efficient travel options, travel less and try to pick more direct routes to save on fuel
- Use less Fossil Fuel Based Products
- Conserve Water
- Reduce Use of Harmful Chemicals
- Animal should not be injured or killed.
- Having identifies parkings near the entry and exit gates.



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## Action Plan

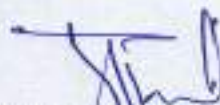
- \* Conveniently co-locate recycling and trash bins to improve convenience and reduce cross- contamination
- \* E-Waste Bins are placed in college campus.
- \* Start a composting pilot project.
- \* To take the Solar energy power generation Initiative to the next level. Planned to establish solar energy park and workshops related to renewable energy are conducted during academic to create awareness among the students.

## Conclusions

It is that the college performs fairly well on sustainability issues. The college does consider the environmental impacts of most of its actions and makes concerted efforts to act in an environmentally responsible manner. In conversations with faculty, staff, and administration of the college, major improvements were made over the last Two years.

The main recommendations are:

- \* Improve the College's monitoring and reporting of water and energy usage and provide better feedback and information to campus users.
- \* To continue working towards composting the post-consumer food waste generated by the dining halls.



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