



**NEW HORIZON**  
**COLLEGE OF ENGINEERING**

## ENVIRONMENTAL IMPACT

### Recycling of Waste – Solid Waste

Link - Refer P.No: 69 to 81

[https://newhorizoncollegeofengineering.in/wp-content/uploads/2025/03/NHCE\\_Sustainability-report.pdf](https://newhorizoncollegeofengineering.in/wp-content/uploads/2025/03/NHCE_Sustainability-report.pdf)

# **GREEN AUDIT AND QUALITY AUDIT REPORT**

**ON**

**WATER AUDIT, ENERGY AUDIT,**

**WASTE MANAGEMENT AUDIT,**

**GREEN CAMPUS MANAGEMENT AUDIT**

**AND ENVIRONMENT AUDIT**

**OF**

**NEW HORIZON COLLEGE OF ENGINEERING**

**BELLANDUR MAIN ROAD, NEAR MARATHAHALLI,**

**BENGALURU – 560 103**

**2023-24**



**NEW HORIZON  
COLLEGE OF ENGINEERING**

New Horizon Knowledge Park, Ring Road, Marathalli

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC

Accredited by NAAC with 'A' Grade. Accredited by NBA



**ECO ENERGIME ENGINEERS LLP**

**ENHANCING RESOURCE EFFICIENCY**

**GREEN AUDIT AND QUALITY AUDIT REPORT**  
**OF**  
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**BENGALURU – 560 103**  
**2023-24**



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**FOR MORE INFORMATION**

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## ACKNOWLEDGEMENTS

We are thankful to the management of **New Horizon College of Engineering, Bengaluru**, for the support, guidance and, giving us the opportunity to be involved in this very interesting and challenging assignment.

We would be happy to provide any further clarifications, if required, to facilitate the implementation of the recommendations.

We received full co-operation and support from the concerned personnel/ staff members of the college. They took key interest and gave valuable inputs during the course of study. We would like to thank:

**Chairman** – New Horizon Educational Institutions, Bangalore

And other Staff in personnel who have given full co-operation and support. They took a keen interest and gave valuable inputs during the course of study.



## Certificate

This is to certify that M/s. Eco Energime Engineers LLP, Bengaluru has conducted **Green Audit** and **Quality Audit** that comprises of **Water Audit, Energy Audit, Waste Management Audit, Green Campus Management Audit, and Environment Audit** of "New Horizon College of Engineering, Bengaluru" during the **November 2023 to October 2024**.

The audit involves field visit, measurements and observations, verification of bills, log books, data base, maintenance registers and interview with staffs, and this gives an overview of the existing system. In an opinion and to the best of our information and according to the information given to us, said Quality Audit gives a true and fair view in conformity with auditing principles.

For Eco Energime Engineers LLP

  
Authorized Signatory



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## EEELLP ACKNOWLEDGEMENT

EEELLP Team thanks the Management of **New Horizon College of Engineering, Bengaluru** for assigning this interesting work to us. We appreciate the cooperation extended to our team during the entire process.

Our special thanks to **The Registrar – Mr H N Suryaprakash & Team of colleagues** for giving us necessary support and inputs to carry out this very vital exercise.

We would like to thank Principal, the Head of Departments and staff members who were actively involved while collecting the data and conducting field measurements.

For Eco Energime Engineers LLP

  
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## DISCLAIMER

The audit team has prepared this report for **New Horizon College of Engineering, Bengaluru** based on input data submitted by the representatives of College complemented with the best judgment capacity of the expert team.

While all reasonable care has been taken in its preparation, details contained in this report have been compiled in good faith based on information gathered.

It is further informed that the recommendations are arrived following best judgments and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

For Eco Energime Engineers LLP

  
Authorized Signatory

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## 2. WASTE MANAGEMENT AUDIT

### 2.1. Facility Description

The study involved carrying out various analyses to realistically assess waste generation.

There are different types of waste generated in the college and is tabulated in table 6-1.

S. No.	Description	Yes / No	Details
1	E-Waste	Yes	External Agency
2	Hazardous / Chemical Waste	No	NA
3	Solid Waste	Yes	External Agency
4	Dry Leaves	Yes	Compost Unit
5	Food Waste	Yes	Compost Unit
6	Waste Water	Yes	STP
7	Glass Waste	No	NA
8	Unused Materials	No	External Agency
10	Plastic Waste	Yes	External Agency

**Table 6-1: Types of Waste Generated in the college**

#### 2.1.1. Dry Waste Management

Separate bins are used across the campus for waste collection. Each room (Staff, class rooms, corridors, office, restrooms, and library) is provided with the separate dustbin to segregate waste. MoU with VAH trucks is signed to manage dry waste in the campus which is as shown in figure 6-1 and figure 6-2.



## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) is made on this day, 27/09/2021 between VAH TRUCKS, No.31, 5th Main Road, Kammanahalli, Bengaluru, Karnataka, 560043 which expression shall include authorized representative Mr. Venkatesh Sampath. Ph: 91-8884477228, 91-9019655878 of the first part

And

New Horizon Educational Institutions, Bangalore whole. Hereinafter referred to as NHEI represented by Mr. H N Surya Prakash - Registrar of the second part.

NHEI refers to all the institutions viz 1. New Horizon College of Engineering, Marathalli 2. New Horizon College, Marathalli 3. New Horizon PU College, Kasturinagar 4. New Horizon College, Kasturinagar 5. New Horizon Public School, Indiranagar 6. New Horizon Gurukul, Kadubisanahalli 7. New Horizon Vidya Mandir, Boganahalli

The activities for which this MoU is signed are to be known as "Trash to Treasure Program"

Whereas VAH TRUCKS is desirous of executing a project under the above Program, detailed proposal of which was exchanged on mail, has approached NHEI to certify that the project will aid in recycling the waste generated within the campus.

And Whereas NHEI has appraised the detailed proposal submitted by VAH TRUCKS and is

satisfied that the project proposed to be executed by VAH TRUCKS will, on completion, aid in the **recycling and issuance of green certificate** and is agreeable to certify it as such subject to the terms and conditions stated hereinafter:

### 1. Responsibilities of VAH TRUCKS

VAH TRUCKS shall

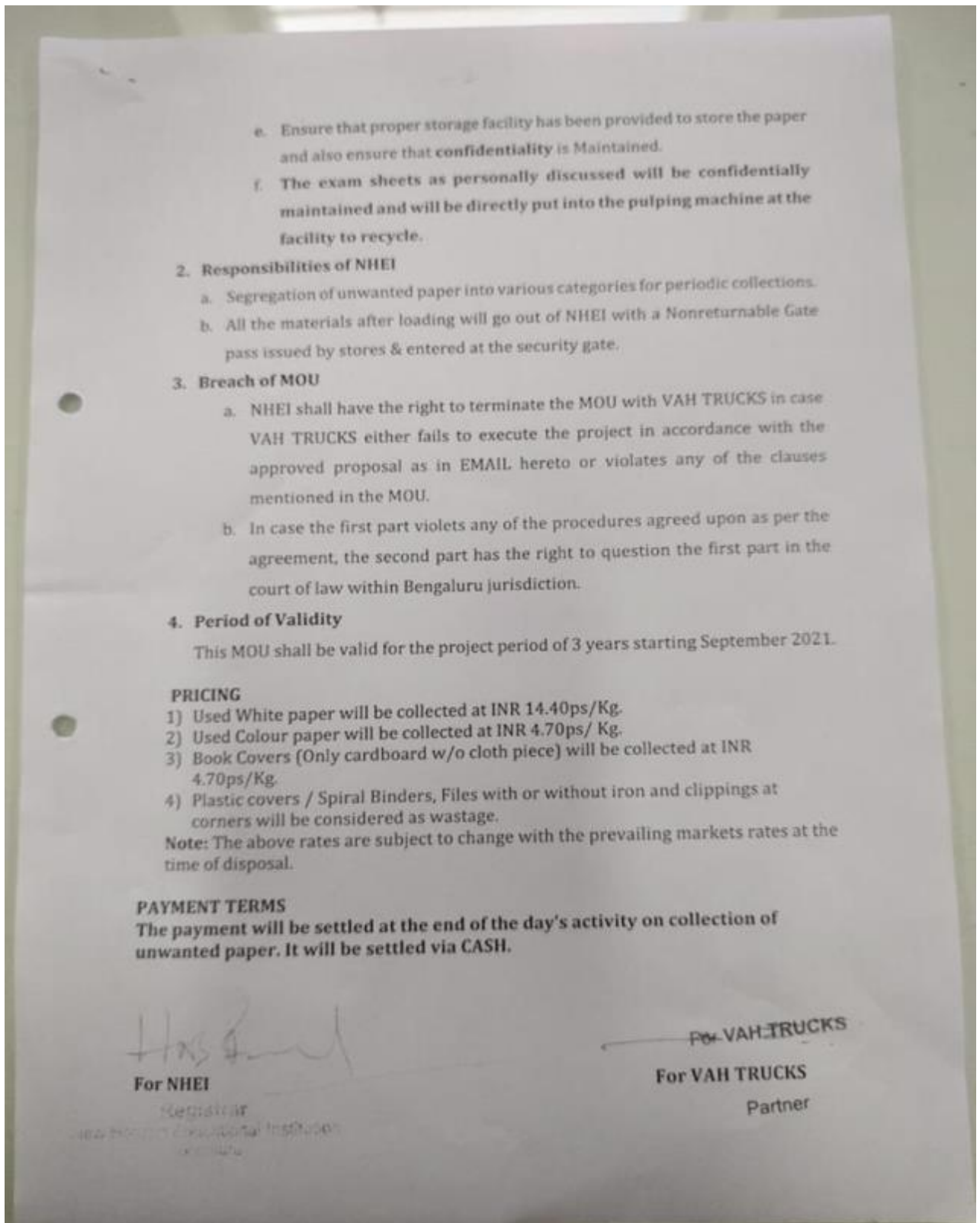
- a. Collect unwanted paper from campus on mutually agreed intervals and provide the reimbursement in return.
- b. Issue of 'Green Certificate' to NHEI for the initiative undertaken in collaboration with VAH TRUCKS.
- c. Weighing and marking the segregated unwanted paper.
- d. Ensure that entire Recyclable Items of Paper will be Properly Recycled at Authorized Mills.

For VAH TRUCKS

Partner

Registrar  
New Horizon Educational Institutions  
Bengaluru

Figure 6-1: Image 1 of 2 – MoU for Dry -Waste management



**Figure 6-2: Image 2 of 2 – MoU for Dry - Waste management**

### 2.1.3. Bio- Waste Management

As part of maintaining hygienic environment for the girl's, the management has provided the sanitary napkin dispenser and sanitary napkin incinerator in the girl's toilet. The pictures of the same are given in figure 6-5.



**Figure 6-5: Bio – waste management**

## 2.2. Best Practices Implemented for Waste management

### 2.2.1. Zero Waste Campus Campaigns

Zero waste campus was one of the major initiatives taken to ban all one time use plastic items. The awareness poster for zero waste campaign is given in figure 6-6.



**Figure 6-6: Zero waste campus campaign poster**

### 2.2.2. Color Code Bins

The garbage segregation is done and the garbage is given to external agencies / municipal agencies from time to time in order to maintain the college premises clean & hygiene. Figure 6-7 shows the waste segregation bins at each floor in the college campus.



**Figure 6-7: Dry and wet waste collection bins at different places**

Waste collection bins of different colours Blue, Green and Red are kept in all the floors in each block. The self explanation poster helps the students/ staffs to dispose the waste according to the category in the relevant waste collection bins. The waste collection bins picture is shown in figure 6.7 and the self explanation poster is show in figure 6.8 respectively.



**Figure 6-8: Poster for waste collection bins**

## 2.2.4. Posters on Plastic Ban

Different Posters on plastic ban has been placed inside the college. Photos are as shown in the figure 6-10.



**Figure 6-10: Posters – Single use Plastic Ban**

Management have installed digital panels to reduce the marketing waste such as banners and flexes.



### **2.2.5. Installation of leaf composter:**

The dry leaves are collected manually and disposed in the leaf composter. The leaf composter available in the campus is shown in figure 6-11.



**Figure 6-11: Leaf composter available in campus**

## **2.3. Recommendations on Waste Management Audit**

- Conducting waste management (collection) drives