



**MANAV RACHNA  
UNIVERSITY**

Declared as State Private University with Haryana Act 26 of 2014

**MANAV RACHNA UNIVERSITY**

# ENVIRONMENT AUDIT REPORT

2021-2022

PREPARED BY  
EHS ALLIANCE SERVICES

# TABLE OF CONTENT

AUDIT CERTIFICATE	2
ACKNOWLEDGEMENT	3
DISCLAIMER	4
CONTEXT & CONCEPT	5
INTRODUCTION	6
OVERVIEW OF UNIVERSITY	7
VISION & MISSION	8
AUDIT PARTICIPANTS	9
EXECUTIVE SUMMARY	9
WASTE MANAGEMENT	11
ENERGY CONSERVATION	13
WATER & WASTEWATER MANAGEMENT	15
AIR QUALITY MANAGEMENT	18
ENVIRONMENT LEGISLATIVE COMPLIANCE	19
GENERAL INFORMATION	20
INITIATIVES CARRIED OUT BY UNIVERSITY	22
RECOMMENDATIONS	24
CONCLUSION	24
REFERENCE	25
ANNEXURE I – ENVIRONMENTAL RECOGNITION AND COMPLIANCE	26
ANNEXURE II – PHOTOGRAPHS OF ENVIRONMENTAL CONSCIOUSNESS	30

# CERTIFICATE



# CERTIFICATE

PRESENTED TO

## MANAV RACHNA UNIVERSITY

Sector 43, Aravali Hills, Delhi-Surajkund Road, Faridabad, Haryana 121004

Has been assessed by EHS Alliance Services for the comprehensive study of environmental impacts on institutional working framework to fulfill the requirement of

## ENVIRONMENT AUDIT

The environment legal compliances and initiatives carried out by the University have been verified on the report submitted and was found to be satisfactory.

The efforts taken by management and faculty towards environment and sustainability are highly appreciated and noteworthy.



SIGNATURE



01.02.2023

DATE OF AUDIT

EHS ALLIANCE SERVICES, PLOT A-72, SURYA VIHAR, GURUGRAM, 122001  
WWW.EHSALL.IN | BUSINESS@EHSALL.IN | EHSALLIANCE@GMAIL.COM

## ACKNOWLEDGEMENT

EHS Alliance Services would like to thank the management of Manav Rachna University for assigning this important work of Environment Audit. We appreciate the co-operation to the teams for completion of assessment.

We would also like to thank **Prof. (Dr.) Meena Kapahi, Director - IQAC**, for her Continuous Support and guidance, without which the completion of the project would not have been possible. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.

We are also thankful to

**Prof. (Dr.) Sangita Banga – Pro-Vice Chancellor - MRU**

**Dr. Kameshwar Singh - Registrar MRU**

**Prof (Dr.) Deepa Arora - Associate Director - IQAC**

**Prof. (Dr.) Ajit Katiyar - Mechanical Engineering**

**Mr. Kripa Shanker Mishra – G. M. Administration**

Last but not the least, we would like to thank **Prof. (Dr.) I. K. Bhat – Hon'ble Vice Chancellor, Manav Rachna University** for giving us an opportunity to evaluate the environmental performance of the campus.



Prepared for: **Manav Rachna University**Prepared by: **EHS ALLIANCE SERVICES**

## DISCLAIMER

EHS Alliance Services Audit Team has prepared this report for Manav Rachna University based on input data submitted by the representatives of university complemented with the best judgment capacity of the expert team.

While all sensible 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 conclusions are arrived following best estimates 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.

If you wish to distribute copies of this report external to your organisation, then all pages must be included.

EHS Alliance, its staff and agents shall keep confidential all information relating to your organisation and shall not disclose any such information to any third party, except that in the public domain or required by law or relevant accreditation bodies.

EHS Alliance staff, agents and accreditation bodies have signed individual confidentiality undertakings and will only receive confidential information on a 'need to know' basis.

  
Signature

LEAD AUDITOR



## CONCEPT AND CONTEXT

---

In India, the process for environmental audit was first mentioned under the Environment Protection Act, 1986 by the Ministry of Environment and Forests on 13th March, 1992. As per this act, every person owning an industry or performing an operation or process needs a legal consent and must submit an environmental report or statement.

The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory from the academic year 2019–20 onwards that all Higher Educational Institutions should submit an annual Green, Environment and Energy Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the sustainable environment.

In view of the NAAC circular regarding environment auditing, the university management decided to conduct an external environment assessment study by a competent external professional auditor.

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. Although there is no universal definition of Environment Audit, many leading companies/institutions follow the basic philosophy and approach summarized by the broad definition adopted by the International Chambers of Commerce (ICC) in its publication of Environmental Auditing (1989).

The ICC defines Environmental Auditing as:

"A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects."

This audit focuses on the environment legal compliances and implementation of rules defined by MoEFCC or state pollution control board. The concepts, structure, objectives, methodology, tools of analysis, and objectives of the audit are discussed below.

## INTRODUCTION

---

Nature is very precious gift for all life forms. Disturbance in the nature causes environmental Problems. These are increasing day by day as a result of development of urbanization and industrialization on earth. Because of unplanned utilization of resources, our planet is facing tremendous pressure results a sharp rise in temperature. Therefore, there is an urgent need to plan the consumption of the resources in sustainable manner in order to conserve natural resources for future generation.

Sustainable development is becoming popular in the world for saving the earth. Utilizing resources judiciously can save the earth's precious resources. Measurement of environmental components is the most effective step to conserve and protect natural resources.

Environmental auditing had begun in the early 1970s with provision of civil lawsuits for non-compliance with environmental regulations. Environment auditing involves on site visit, collection of samples, performing analyses, and report results to competent authorities.

Industry, the corporate world is initiating auditing for saving natural resources. Academic institutions also can contribute to the preservation and conservation of resources within their premises.

In this, "Environment Audit" report would help everyone to think about preserving resources, show willingness to learn their importance, adopt steps to minimize resource use and set an example for others to follow the path of eco-friendly practices to achieve the goal of sustainable development. Effective implementation of environmental auditing helps in minimization of environmental risks at low cost.

## OVERVIEW OF THE UNIVERSITY

Manav Rachna University (MRU) is a leading State Private University (established by Haryana State Legislature Act No 26 of 2014 & under section 2(f) of UGC Act 1956), offering globally relevant education. The University has evolved from Manav Rachna College of Engineering (MRCE), which was established in the year 2004, a NAAC accredited 'A' Grade institution. Manav Rachna University is among the Top 2 Emerging Engineering Institutions of India and has been ranked the No. 1 Engineering Institution in India for Research Capability & Placements in the Times Engineering Survey 2022. The accreditations/rankings are testimonial to the trust of accrediting bodies in the quality of education being offered, a well-established teaching and learning process guided by the global best practices and a culture of academic excellence promoting research, innovation & entrepreneurship.



### Strategic Objectives

- To facilitate, enhance & promote innovation in curriculum design and delivery and have Outcome-oriented Learning Culture.
- To promote Research Environment and Management Practices.
- To enhance the quality of the student learning experience.
- To provide Resources and Infrastructure for Academic Excellence.

Prepared for: **Manav Rachna University**

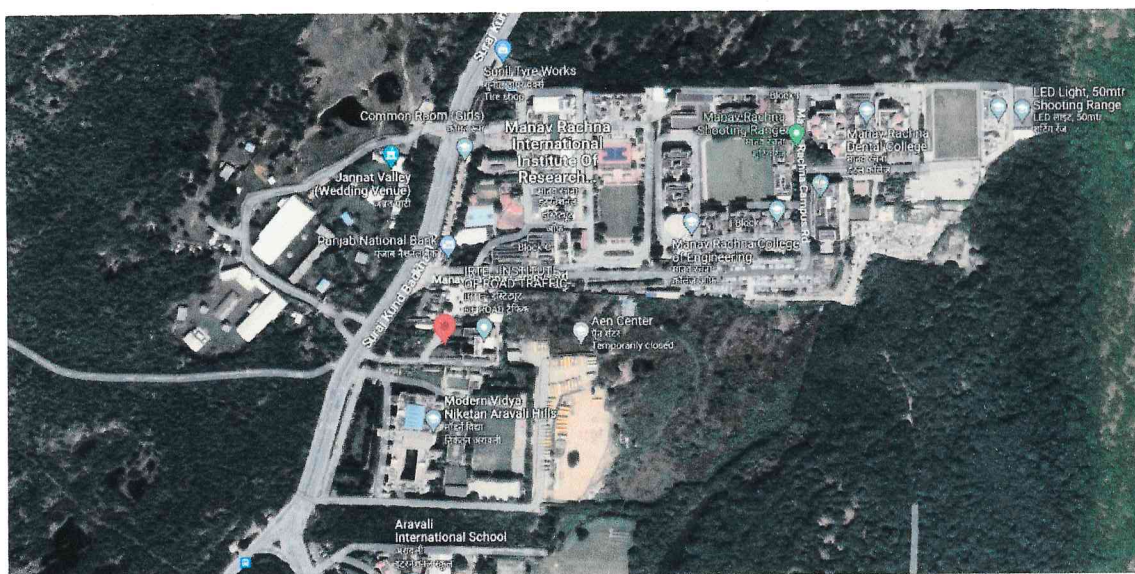
Prepared by: **EHS ALLIANCE SERVICES**

# VISION

To educate students in frontier areas of knowledge enabling them to take up challenges as ethical and responsible global citizens

# MISSION

- To impart outcome based holistic education
- To disseminate education in frontier areas
- To produce globally competitive, ethical and socially responsible human resources
- To produce human resources sensitive to issues of Environment and Sustainable Development
- To develop Environment and Sustainable development as a thrust area of research and development.



## Geo Location

Geo Coordinates from Google maps: 28.4490247, 77.2837703

## AUDIT PARTICIPANTS

On behalf of university

Name	Designation
<b>Prof. (Dr.) I. K. BHAT</b>	<i>Vice Chancellor, Manav Rachna University</i>
<b>Prof. (Dr.) Sangita Banga</b>	<i>Pro VC, Manav Rachna University</i>
<b>Dr. Kameshwar Singh</b>	<i>Registrar, Manav Rachna University</i>
<b>Prof. (Dr.) Ajit Katiyar</b>	<i>Department of Mechanical Engineering</i>
<b>Mr. Kripa Shanker Mishra</b>	<i>G. M. Administration</i>
<b>Prof. (Dr.) Geeta Thakur</b>	<i>Dean, DSW</i>
<b>Prof. (Dr.) Meena Kapahi</b>	<i>Director, IQAC</i>
<b>Dr. Deepa Arora</b>	<i>Associate Director, IQAC</i>
<b>Dr. Desh Pal Singh</b>	<i>Sr. Manager, Horticulture</i>
<b>Mr. Sudhir Pahuja</b>	<i>Manager, Maintenance</i>
<b>Mr. Gurdeep Singh</b>	<i>Manager, Maintenance</i>

On behalf of EHS Alliance Services

Name	Position	Qualifications
<b>Dr. Uday Pratap</b>	Lead Auditor	Ph.D. , PDIS, QCI – WASH, Lead Auditor ISO 14001:2015
<b>Ms. Pooja Kaushik</b>	Co-Auditor	M.Sc, Field Expert, QCI – WASH

## EXECUTIVE SUMMARY

The environment audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes out-dated unless there is some mechanism in place to continue the effort of monitoring environmental compliance. Our approach to promote a Green Campus to inculcate the sustainable value systems among the students, so that they carry the learning and practices them in their future endeavours. This will ensure that Sustainability and Environmental practices get embedded in all the institutions and organizations in the country.

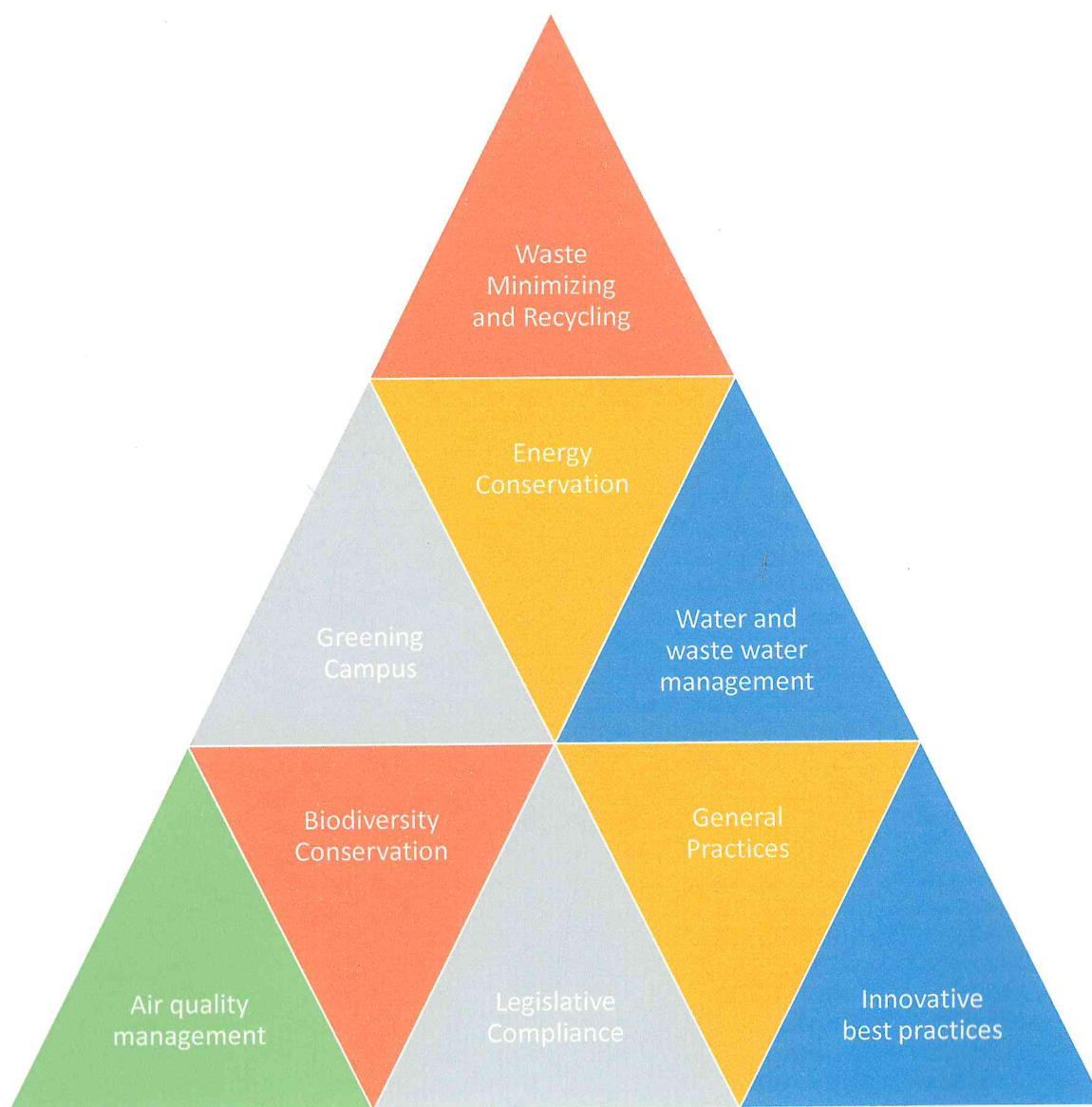
A Green Campus is a place where environmentally friendly practices and education combine to promote sustainability in the campus which ultimately offers an institution the opportunity to take

Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**

the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

This is the first environment audit of university for doing their bit towards environmental protection and environmental awareness at local and global front. Audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. A questionnaire is used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.



# WASTE MANAGEMENT

## TYPE OF WASTE ON UNIVERSITY CAMPUS

To create effective waste management plans, university first need to know the type of waste being generated at the campus. Below, we have compiled a list of various kinds of waste commonly generated on institutional campus:

1. **FOOD WASTE** - University campus generates food waste. The average mess and canteen generates approximately 10 kg of food waste a day. The reasons for food waste on an educational campus may be over purchasing food to ensure a sufficient supply and then throwing it away, especially in all hostel messes where plentiful stores are essential. And in the cafeteria or hostel mess, students may pile food onto their trays, find it unappealing once they sit down and dutifully scrape it into the garbage. Immediate attention is given to the food waste minimization techniques.
2. **RECYCLABLE PAPER, CARDBOARD, PLASTIC, GLASS AND CANS** - Campus tends to produce vast quantities of these recyclables. Even in the digital age, many students, professors and staff members still prefer handwritten notes and end up with piles of unwanted paper once their courses and projects are complete. The snacks so essential to late-night studying or socializing tend to come in recyclable plastic, glass or aluminium containers. And shipments of necessary items throughout the year are likely to arrive in recyclable plastic and cardboard packaging. The same is sold/auctioned to the scrap vendors time to time.
3. **STUDENT CLOTHES AND HOUSEWARES** - As we have mentioned above, many students find it more convenient to throw away their clothes and dorm furnishings at the end of the year than donate or recycle them. So, Manav Rachna University has regular clothes donation and recycling drives in the campus
4. **E-WASTE** - Student and facility electronics often form a large portion of a campus's waste — As campus continually upgrade their computing facilities and office computers to keep up with the latest technology, the old computers have to go somewhere. So do old printers, phones, copy machines and other electronics that receive upgrades over the years. Discarded student electronics often become part of a university's waste stream as well. Students may throw away old phones, TVs, tablets, laptops and printers, along with cords and other accessories. Recycling is a much more eco-friendly option — the metals in old electronics often have a high reuse value. University has tie-up with external authorised agency details mentioned in legislation compliances.

Prepared for: **Manav Rachna University**Prepared by: **EHS ALLIANCE SERVICES**

5. **CHEMICAL WASTE** - Chemical waste on a university campus may come from numerous sources. Campus laboratories generate waste chemicals, as do cleaning services. The detergents used in campus laundry rooms eventually become waste as well. Much of these chemical substances are hazardous waste under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and must undergo specific disposal processes according to state environmental rules and regulations.
6. **MAINTENANCE WASTE** - In the maintenance department, spent paints, solvents, adhesives and lubricants all form potentially hazardous waste. Because they are difficult to recycle, spent incandescent light bulbs usually become landfill waste. Spent fluorescent light bulbs, which contain small amounts of mercury, typically require special handling because of the environmental and health risks they pose.
7. **BIOLOGICAL WASTE** - Biological waste from laboratories will require special handling and disposal as per BMW Rules, 2016. MRU has installed many incinerators at different location to dispose BMW waste.
8. **FURNITURE** - Furniture waste on a university campus has a couple different sources. The campus itself may also get rid of old furniture as it modernizes its classrooms, cafeterias, computer labs and study spaces. Annually sold to junk dealer.
9. **BOOKS/MAGAZINES/NEWSPAPERS** - Books accounted for solid waste generation and university often generate tons of textbook waste. As courses upgrade to new editions, they may end up throwing their newly obsolete textbooks into the garbage if donation programs cannot use them. Students of MRU donates their text books and notes to junior students, or else are auctioned to reseller.
10. **C & D WASTE** - Due to expansion of university campus building and renovation works result significant amount of construction and demolition waste that should be either used for back filling or disposed off through authorised dumping site by CPCB/SPCB.
11. **SOLID WASTE** - The university is managing solid waste by providing it to the MCD.
12. **HORTICULTURE WASTE** – University campus has lavished greenery and grounds that results significant horticulture waste which is managed by in-house composting system.

## ENERGY CONSERVATION

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.

**A. Electricity**

- Lights, Fans, Air conditioners
- Lab equipment
- Computers in labs, faculty rooms & offices
- Electrical Appliances in Pantry

**B. LPG**

- In Chemistry lab
- Hostel mess
- Cafeteria

**C. Solar Energy**

- Lights, Fans & air conditioners
- Laptops, printers, scanners

**D. Biogas**

- Miscellaneous work

**E. Fuels**

- Petrol & diesel for institute owned vehicles

**Ways to use less energy**

- Using Energy efficient appliances
- Switching off the electrical equipment when not in use
- Use of Air conditioners at optimum temperatures as per the utilization schedule
- Use of sensors
- LED lights

2. Are there any energy saving methods employed in your institute? If yes, please specify. If no, suggest some

- LEDs installed
- Motion Light Sensors installed in corridors, library, open areas to save electricity
- VRV air-conditioners installed
- Use of Air conditioners at optimum temperatures as per the class timetable
- Sensor based air conditioners installed in Server room
- Car pooling

Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**

- Solar panels installed
- Level control sensors

### 3. How many CFL/LED bulbs has your institute installed?

Approx 70 % of Total Conventional bulbs and tubelights are replaced by LED Lights.

### 4. Do you run "switch off" drills at institute?

Yes. Green Warriors (Dr OP Bhalla Foundation and Manav Rachna Centre for Peace & Sustainability) organized "Switch it Off", an energy conservation initiative on 14th December 2022 on the occasion of National Energy Conservation Day. The initiative started on 5th December 2022, with Sticker or Tag Designing Competitions in which students had to make informative door tags asking people to switch off lights before leaving. The winner of the competition was Anushka Priya from Faculty of Applied Health Sciences. Her winning design was later reproduced to be distributed in majority of the staff rooms. On 14th December 2022, Volunteers, across the MRU campus, tied door tags in staff rooms and offices to remind faculty and staff members to turn off lights and fans before leaving. In this initiative, the goal was to lower energy consumption in Manav Rachna Campus and monitor the performance of each block every 15 days. The faculty appreciated the initiative and promised to take responsibility for it.

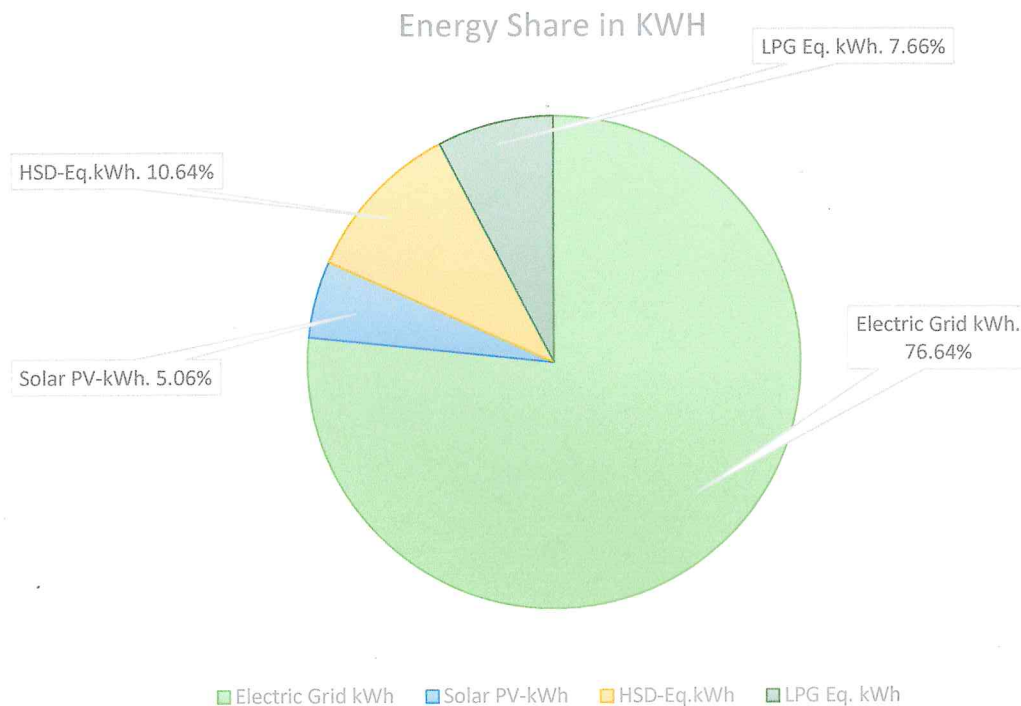
### 5. Are your computers and other equipment's put on power-saving mode?

Yes

### 6. Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?

Utilization of equipment's is done as per the Timetable requirements only and otherwise the system is on power saving mode.

Energy Share	kWh	Percentage
Electric Grid kWh	1433626.50	76.64%
Solar PV-kWh	94652.00	5.06%
HSD-Eq. kWh	199088.40	10.64%
LPG Eq. kWh	143229.60	7.66%
Total -kWh	1727366.90	100%



## WATER AND WASTE-WATER MANAGEMENT

### 1. List uses of water in your institute

*Basic use of water in campus:*

*Drinking – 68.62 KL/month*

*Gardening – 307.49 KL/month*

*Kitchen and Toilets – 451.20 KL/month*

*Others – 162.34 KL/month*

*Hostel – 407.70 KL/Month*

*Total = 1397.35 KL/Month*

Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**

## **2 How does your institute store water? Are there any water saving techniques followed in your institute?**

*Available total water storage is 1,24,000.*

*18 tanks of 5000 litres = 90,000 litres*

*02 tanks of 4000 litres = 8,000 litres*

*12 tanks of 2000 litres = 24,000 litres*

*02 tanks of 1000 litres = 2,000 litres*

### *Saving Techniques*

- *Avoid overflow of water-controlled valves are provided in water supply system.*
- *Close supervision for water supply system.*
- *Sensor based taps are installed*
- *Water Conservation awareness for new students*
- *Sprinklers usage for gardening and grass cover*

## **3. Locate the point of entry of water and point of exit of waste water in your institute. (Entry and Exit)**

*Entry - Water comes from Borewell*

*Exit- From Canteen, Toilets, bathrooms, Hostels and Labs through covered drainage which is connected to STP (200 KLD)*

## **4. Write down ways that could reduce the amount of water used in your institute**

### *Basic ways:*

- *Close the taps after usage*
- *Water Conservation awareness for new students*
- *Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage*
- *Sensor based taps and push tap are installed to save water*

## **5. Does your institute harvest rainwater?**

*University is collecting rain water in a large underground storage tank with capacity of 2 lacs litres. Drawing of the same is shown below.*

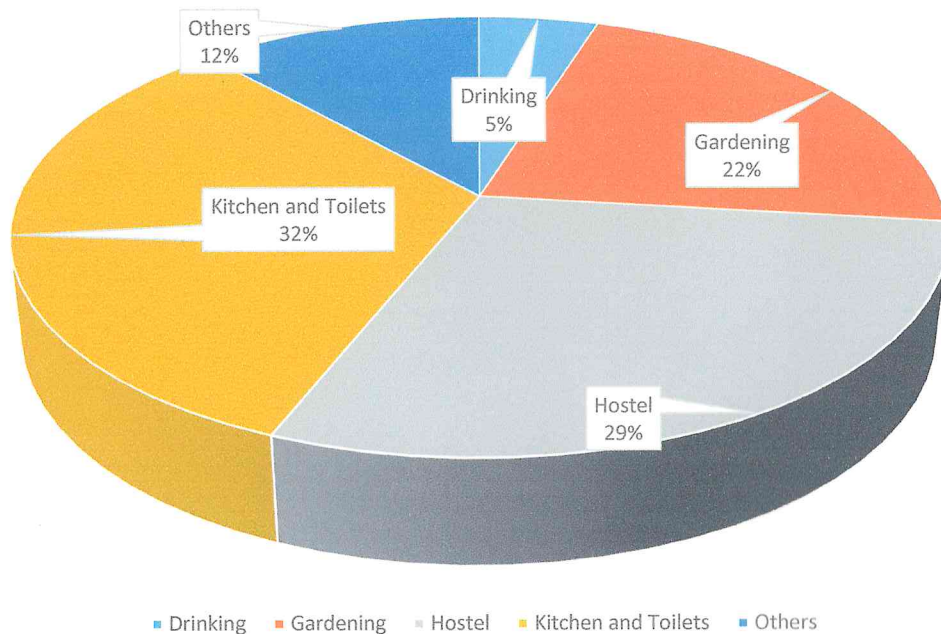
Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**

## 6. Is there any water recycling System?

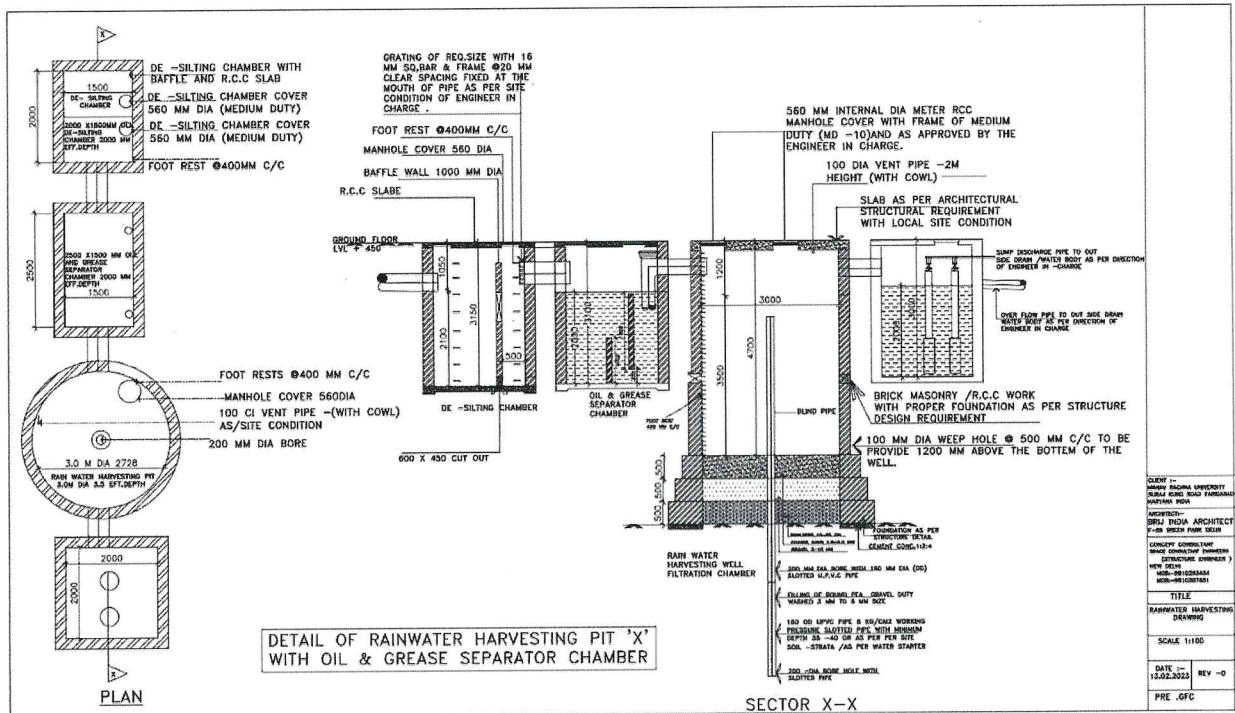
*STP is installed in campus with a capacity of 200 KLD*

Water Consumption (KL per Month)



Prepared for: Manav Rachna University

Prepared by: EHS ALLIANCE SERVICES



The drawing of Rainwater Harvesting Pit

## AIR QUALITY MANAGEMENT

### 1. Are the Rooms in Campus Well Ventilated?

Yes, as per National Building Code, guidelines

### 2. Window Floor ratio of the Rooms?

Very Good, ample daylight utilization because of big windows.

### 3. What is the ownership of the vehicles used by your campus?

There are 3 university owned vehicles.

### 4. Provide details of school-owned vehicles?

Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**

*Car - 01 (Diesel), Ambulance -02(Petrol)*

#### **5. PUC done?**

*Yes*

#### **6. Specify the type of fuel used by your campus's vehicles**

*Car - 02 (1 Diesel and 1 Petrol), Ambulance -01(Petrol)*

#### **8. Air Quality Monitoring Program (If, Any)**

*Yes, MRU have Air Quality monitoring device by - Air Veda. The indoor air quality is monitored weekly.*

## **ENVIRONMENT LEGISLATIVE COMPLAINTANCE**

### **1. Are you aware of any environmental Laws Pertaining to different aspects of environmental management?**

*The institution is well aware of the environmental laws and the guidelines shared by various statutory bodies like UGC, AICTE, BCI are well implemented from time to time. The institution has well drafted environment policy and the implementation is adhered.*

*We have an ECO Club and active student group - green warriors to conduct activities and spread awareness.*

*Under MRCPS - Sahrita vertical is established to work SDG 1*

### **2. Does your institute have any rules to protect the environment? List possible rules you could include.**

*Yes, the MRU's- Eco club is conscious about the environment protection and takes proper measures in terms of awareness campaigns, activities, webinar, seminars, etc.*

Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**

**3. Does Environmental Ambient Air Quality Monitoring conducted by the Institute?**

Yes

**4. Does Environmental Water and Waste water Quality monitoring conducted by the Institute?**

*Yes, Water & wastewater Quality monitoring is done centrally by General administration department.*

**5. Does stack monitoring of DG sets conducted by the Institute?**

No

**6. Is any warning notice, letter issued by state government bodies?**

No

**7. Does any Hazardous waste generated by the Institute?**

No

## GENERAL INFORMATION

**1. Does your institute have any rules to protect the environment? List possible rules you could include.**

- *Save Trees - Plantation drive*
- *Ban on Plastic*
- *Car-Pool*
- *e-waste management*
- *Biodegradable waste management through Composting, solid waste management*
- *Waste-water recycling*

Prepared for: **Manav Rachna University**Prepared by: **EHS ALLIANCE SERVICES****2. Are students and faculties aware of environmental cleanliness ways? If Yes Explain**

Yes. MRU creates awareness through ECO Club activities, Webinars, cleanliness drives in the community, NGOs and adopted villages (under Unnat Bharat Abhiyan). The nationwide Govt. initiatives like Swachh Bharat Abhiyan, Ban on Single use plastic, Unnat Bharat Abhiyan, Paryavaran Sanrakshak Gatividhi, Tree Plantation drive, are also encouraged on large scale.

MRU has been sanctioned a project by MOEFCC on solid waste awareness under which various activities are carried out at national & international level.

**3. Does Important Days Like World Environment Day, Earth Day, and Ozone Day etc. eminent in Campus?**

Yes, World Environment Day, Ozone Day, Earth Day, World water day, World wetland Day, Earth hour and more are celebrated by campus.

**4. Does Institute participate in National and Local Environmental Protection Movement?**

Yes through various activities for Environmental Protection.

**5. Does Institute have any Recognition or certification for environment friendliness?**

Certificates are attached in annexure I

**7. Does Institution conduct a green or environmental audit of its campus?**

This is the first external audit carried out by the university.

## INITIATIVES CARRIED OUT BY UNIVERSITY

---

- On the occasion of WATER DAY (22nd March) Manav Rachna Centre for Peace and Sustainability and MRU initiated Conserve Water Pledge.
- Manav Rachna Peace and Sustainability Club organised an event organised “ECO-LUTION a hand bag making competition with newspaper” on the occasion of World Environment day (5th – 20th June 2021)
- Manav Rachna Centre of Peace and Sustainability, MRU in collaboration with Bombay Natural History Society organized a webinar on topic “Ecological Restoration – Growing native Plants Of Aravali” on 17th July, 2021
- Workshop on Climate Change Awareness & Action Plan was organized on 12th Aug, 2021
- Workshop on ‘Solid Waste Management’ was organized on 26th Aug, 2022
- Workshop on ‘Solid Waste Management’ was organized on 10th May, 2022
- Plastic waste awareness drive at Govt. Sr. Sec. School, Ankhir, Faridabad (30th May 2022)
- Plastic waste awareness drive at Govt. Sr. Sec. School, Anangpur, Faridabad (31st May 2022)
- Cleanliness drive and installation of dustbins at Mata Mandir, Anangpur, Faridabad (3rd June 2022)
- Essay writing competition on the topic “Perils of Plastic Waste Pollution” was organized at Manav Rachna University, Faridabad (3rd June 2022)
- Poster and Slogan competition on occasion of ‘World Environment Day’ on 5th June 2022
- Swachh Bharat Harit Bharat Green Pledge ceremony was organised for the students and faculty members and community in the offline and online mode. (5th June)
- On World Environment Day 2022 – Only One Earth, Manav Rachna University in collaboration with the Hazardous Substances Division, Ministry of Environment, Forest and Climate under the Central Sector Scheme, organised online Photo-Story Competition.

Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**

- Online quiz competition on the World Environment Day - Only One Earth (5th June 2022)
- Online slogan writing competition on Plastic and Solid Waste Pollution (5th June 2022)
- Online awareness session on plastic waste management by Dr. BC Sabata (10th June 2022)
- Plastic waste awareness drive at Jagriti Sewa Trust, Sec 16, Faridabad (7th June 2022)
- On 18th August, 2022 an event called "POP" was hosted by MRU with an aim of spreading an idea to start giving back to mother nature. It included various activities such as photography competition, dance and singing performances, stalls and more
- An awareness session e-waste management and Recycling in collaboration with hazardous Substance Management Division (MOEFCC) on 9th Sept, 2022
- FUN E E-WASTE WEEK was organised from 12th Oct to 19th Oct wherein the event was concerned with E-WASTE collection and its subsequent recycling by NAMO industry.
- Students were not only able to recycle E-Waste present around them but also presented some wonderful projects with scientific application and proper working model conditions under the project "E-waste project Making assignment"
- Sadbhav, Manav Rachna Centre for Peace and Sustainability Organized Nature's Walk – All went for a nature walk on 17th Nov 2022.

## RECOMMENDATIONS

- Eco-friendly parameters should be included in the purchase of articles and goods for the campus.
- Car-pooling practices can be adopted by campus to minimise air pollution.
- The periodic maintenance schedule for renewable sources of energy to achieve optimised efficiencies.
- Environmental Monitoring i.e. (Stack Monitoring of DG sets, Water monitoring need to be conducted by State Pollution Control Committee approved laboratory) should be conducted periodically.
- Agreement with third party authorised vendors should be done for different types of waste management, such as e-waste, BMW, Plastic waste, etc.
- Increase the capacity of solar PV so that it can fulfil at least 70% of the electricity requirement
- Reduce carbon emission by reducing the power consumption

## CONCLUSION

This audit involved extensive consultation with all the campus team, interactions with key personnel on a wide range of issues related to environmental aspects. Overall, 60% of university campus is for landscaping and 35% is green cover. Manav Rachna University is dedicated to promote the environment management and conservation in the campus and community. The audit has identified some suggestions for making the campus premise more environment friendly. The recommendations and suggestions are mentioned for campus to initiate actions.

The audit team opines that the overall site is well-maintained from environmental perspective. The recommendations in this report highlight many ways in which the university can work to improve its actions and become a more sustainable institution.

## REFERENCES

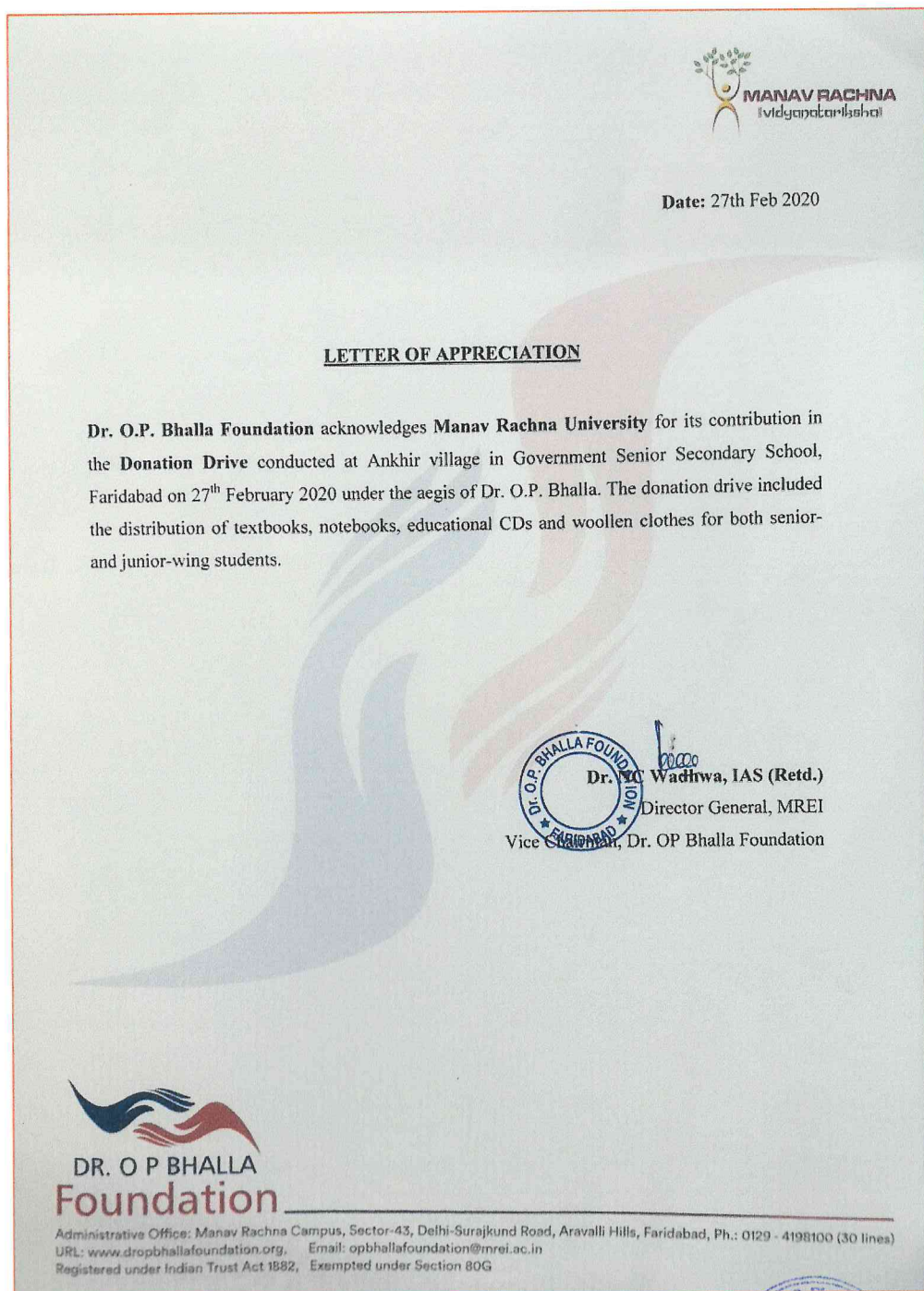
---

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

Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**

# ANNEXURE I – ENVIRONMENTAL RECOGNITION AND COMPLIANCE





## JAGRITI SEWA TRUST

362, Sector-14, Faridabad-121007, Haryana (India)

Tel.: +91-129-2284257, Mob.: +91-9810754420

E-mail : jagritisewatrust@gmail.com Website : www.jagritisewatrust.org

### Letter of Recognition

We express our sincere gratitude & appreciation to **Manav Rachna University** in collaboration with the **Hazardous Substances Management Division(HSMD)**, Ministry of Environment, Forest and Climate Change (MoEF&CC) under the Central Sector Scheme, **Brahma Kumaris organization** and **MRCPS - Sadhbhav** for organizing the event "**Creating Clean & Green Minds**" on 9th July 2022 for the students of Jagriti Sewa Trust, Sector 16, Faridabad.

The event consisted of the following: An awareness session on the significance of **self awareness and clean environment, plantation drive, and poster distribution drive on "Swachh Bharat Harit Bharat Green Pledge" & "Ban on Single Use Plastics"**. The entire event sensitized and motivated our students. We appreciate your sincere efforts for the same.

  
(Dr. Shikha Gupta)



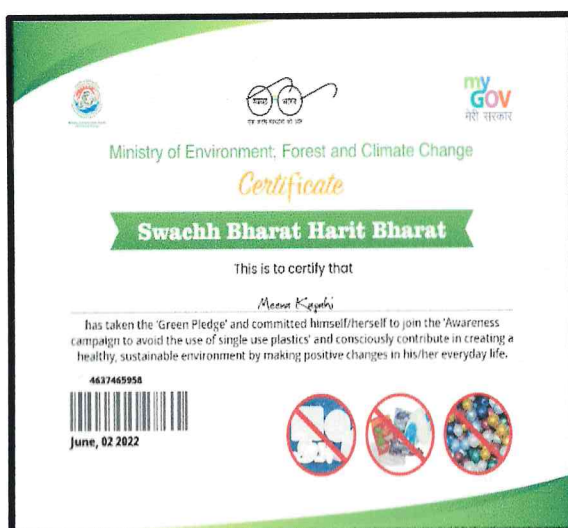
Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**



Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**



## ANNEXURE II – PHOTOGRAPHS OF ENVIRONMENTAL INITIATIVES



**WCDM DRR Award**



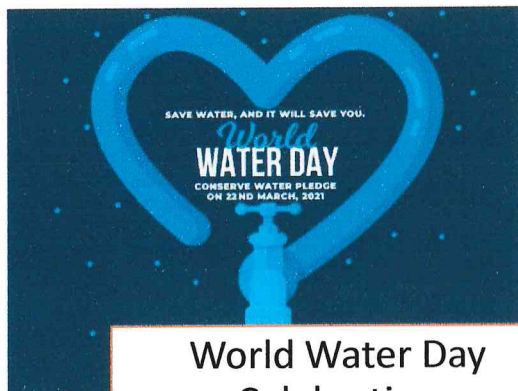
**Awareness Posters**



**Say No to single use plastic**



**Swachh Bharat Campaign**

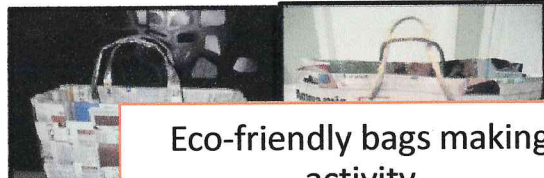


**World Water Day Celebration**



**Eco-friendly handbag making competition**

Prepared for: **Manav Rachna University**



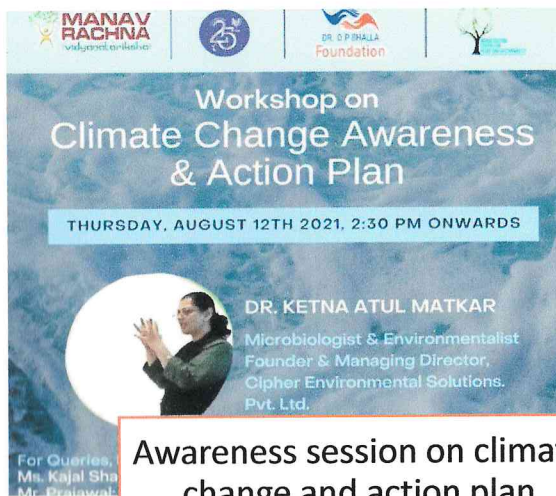
**Eco-friendly bags making activity**



**Solar lights installed in the campus**



**Earth Hour Pledge**



**Awareness session on climate change and action plan**



**Workshop on Solid waste management**



Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**



**Best Out of E-Waste**



**STP in action**



**E-waste awareness campaign**



**Swachh Bharat Abhiyan activity**



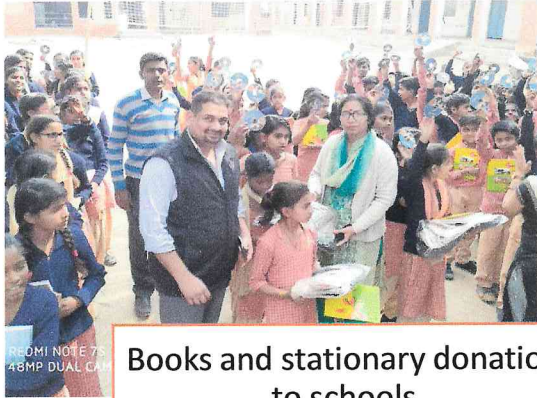
**Plastic waste awareness drive at Govt. Sr. Sec. School, Anangpur**



**Plastic waste awareness drive at Jagriti Sewa Trust**

Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**



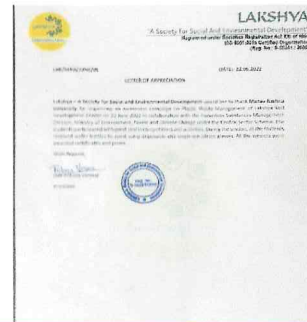
**Books and stationary donation to schools**



**Old clothes donation drive with NGO in nearby villages**



**Battery operated vehical**



**Appreciation letter**

To whomsoever it may concern.

We express our sincere and recognise the efforts of Manav Rachna University in collaboration with HSMD, MoEF&CC under the Central Sector Scheme for sensitising the students and faculty members regarding the Solid Waste Management and Ban on Single Use Plastics through awareness session, poster drive and Workshops on Composting and Bioenzyme followed by the *Swachh Bharat Harit Bharat Green Pledge!*

We recognise the efforts of the University for environment conservation.

*Subodh*  
Principal  
Maharaja Pratap Singh College, Anangpur

**Appreciation letter from School in Anangpur village**

To whomsoever it may concern.

We express our sincere and recognise the efforts of Manav Rachna University in collaboration with HSMD, MoEF&CC under the Central Sector Scheme for sensitising the students and faculty members regarding the Solid Waste Management and Ban on Single Use Plastics through awareness session and poster drive and organising competitions followed by the *Swachh Bharat Harit Bharat Green Pledge!*

We recognise the efforts of the University for environment conservation.

*Raj*  
Principal  
Sri. Sec. School, Anangpur

**Appreciation letter from Govt. Sr. Sec. School, Anangpur**

Prepared for: **Manav Rachna University**

Prepared by: **EHS ALLIANCE SERVICES**

### CUREARTH INDIA E-WASTE RECYCLING

Plot No 22, Sec-8, IMT Manesar, Gurgaon, Haryana, E-mail: info@curearth.in, Contact No: 9599829982  
Auth.E- waste Dismantler(Authorisation No: HSPCB/2020/7621687EWREF01)

#### Certificate for E-waste Disposal

Ref No: MDN/EW/2020-21/59

Date: 26-11-2021

This is to certify that Curearth India E-waste Recycling has collected 3700 Kilograms of E-waste from

**M/s. Koscove E-waste Pvt Ltd., Noida**  
on behalf of

**M/s. UTHAN EDUCATIONAL TRUST**, having address at **5E/1A, Bunglow plots, N.I.T. Faridabad, Haryana 121001**. We have destructed/recycled the material in our Dismantling /Recycling plant at IMT Manesar, Gurgaon, Haryana as per guidelines of MOEF & CPCB. We appreciate **M/s. UTHAN EDUCATIONAL TRUST** for taking this noble initiative of e-waste Recycling.

*For Curearth India E-waste Recycling*

*For Curearth India E-Waste Recycling*

*Authorised Signatory*

*Authorised Signatory*

**E-Waste recycling  
certificate**



**Bio-Gas plant in MRU  
campus**

\*\*\*\*\* **END OF THE REPORT** \*\*\*\*\*

