ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY

GREEN AUDIT REPORT

2022 - 2023

PREPARED BY

EHS ALLIANCE SERVICES

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CERTIFICATE

EHS alliance

CERTIFICATE

PRESENTED TO

ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY

SP-40, RIICO Industrial Area, Kukas, Delhi Road, Jaipur Rajasthan - 302028

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

GREEN AUDIT

ACADEMIC YEAR 2022-23

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

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

EHS ALLIANCE SERVICES GURGAON

SIGNATURE

10.04.2023
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 Arya Institute of Engineering & Technology for assigning this important work of Green Audit. We appreciate the co-operation to the teams for completion of assessment.

We would also like to thank ***Dr. Pramod K. Sharma- Audit Coordinator***, for his 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

Er. Kshitiz Agarwal - *IQAC Director*

Er. Sandeep Jhamb - *H.O.D. Mechanical Engineering*

Mr. Rajesh Jaiswal - *Estate Manager*

Mr. Devendra Kumar Badiwal - *Accountant*

Last but not the least, we would like to thank ***Dr. Himanshu Arora- Principal*** and ***Dr. Arvind Agarwal, President of Society*** for giving us an opportunity to evaluate the environmental performance of the campus.

DISCLAIMER

EHS Alliance Services Audit Team has prepared this report for Arya Institute of Engineering & Technology based on input data submitted by the representatives of college 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.

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Signature

LEAD AUDITOR

CONCEPT AND CONTEXT

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. Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through Carbon Footprint reduction measures.

In view of the NAAC circular regarding Green auditing, the College management decided to conduct an external environment assessment study by a competent external professional auditor. The green audit aims to examine environmental practices within and outside the college campus, which impact directly or indirectly on the atmosphere. Green audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of college environment. It was initiated with the intention of reviewing the efforts within the institutions whose exercises can cause risk to the health of inhabitants and the environment.

Through the green audit, a direction as how to improve the structure of environment and inclusion of several factors that can protect the environment can be commenced. This audit focuses on the Green Campus, Waste Management, Water Management, Air Pollution, Energy Management & Carbon Footprint etc. being implemented by the institution. The concepts, structure, objectives, methodology, tools of analysis, objectives of the audit as below:

INTRODUCTION

Now a days, the educational institutions are becoming more thoughtful towards the environmental aspects and as a result new and innovative concepts are being introduced to make them sustainable and eco-friendly. To preserve the environment within the institution, a number of viewpoints are applied by the several educational institutes to solve their environmental problems such as promotion of the saving the energy, waste recycle, water consumption reduction, water harvesting and many more...

The activities carried out by the institution can also create adverse environmental impacts. Green audit is defined as an official inspection of the effects a college has on the environment. Green Audit is conducted to evaluate the actual scenario at the institution campus. Green audit can be a useful tool for a university /college to determine how and where they are using the most of the energy or water or resources; the institution can then decide how to implement changes and make savings. It can also be used to determine the nature and volume of waste, which can be used for a recycling project or to improve waste minimization plan.

Green auditing and the application of mitigation measures is a win-win situation for all the institutions, the learners and the mother earth. It can also result in health awareness and can promote the environmental awareness, values and beliefs. It provides a better understanding to staff and students about the Green impact on institution. Green auditing also upholds financial savings through reduction of resource usage. It gives an opportunity to the students and teachers for the development of ownership of the personal and social responsibility. The audit process involves primary data collection, site walk through with the team of university /college including the assessment of policies, activities, documents and records.

OVERVIEW OF THE COLLEGE

Arya Institute of Engineering & Technology (AIET) is amongst the foremost of Top Institutes in Rajasthan for Engineering in Higher Technical Education & Research. Established in the year 2005, in the State of Rajasthan, Arya Institute of Engineering & Technology has evolved into the most prominent College in the state as well as the Best Engineering Colleges in Jaipur. Spread over 5 acres of land, its highly skilled faculties are imparting education and guidance to thousands of students in a multi-faceted environment comprising of various Teaching Departments on its Campus. Since its establishment, the Institute has played a vital role in providing the best technical manpower and know-how to the country.

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MISSION, VISION & VALUES

MISSION

- ✓ To create a Progressive Academic Environment by nurturing the Creativity, Ideas, Innovation and Skills in Students in order to achieve Qualitative Techno-Managerial Skills.
- ✓ To provide Excellent Ambience to enhance the Teaching-Learning processes amongst Students and Faculty members by building a determined team who are committed to the ideas of Integrity, Positive Thinking and Social Development to meet industry expectations and requirements.
- ✓ To make Students Globally Competitive by providing suitable Training, Value Added Certification Courses and Beyond Syllabus Academics in order to generate capacity to face competitions and placements and become imaginative mastermind and inventive issue solver while providing them safe and challenging environment.

VISION

To emerge as the best educational institute and Work for Excellence in imparting quality education to the students to nurture their inherent talent as Innovative Professional in technical and managerial field there by making them competitive to meet all the future challenge of global economy..

VALUES

Create an environment that instills professionalism, integrity, and the highest professional commitment to the students

Facilities in the campus

Amenities at Arya Institute of Engineering & Technology (AIET) provide far more than academic and administrative facilities on campus. It is dedicated to provide students with an exceptional infrastructure for learning as well as facilities for simplifying the procurement of fundamental skills. To accomplish the goal, AIET offers the following :

GREEN CAMPUS: The Institute has an impressive and pollution-free campus with panoramic green surroundings, elegant landscaping and beautiful flowerbeds.

TRANSPORT: The institute runs its own fleet of buses and Cabs for the convenience of the students and the staff members to help them commute from Jaipur and surrounding areas. The students intending to avail the transport facility need to inform the transport officer at the time of admission.

SPORTS ACTIVITIES: Spending quality time is never a problem in the Institute. Sports facilities are provided for Lawn tennis, Table tennis, Carom, Billiards Table, Cricket, Football, Badminton, Basketball, and Volleyball. Evenings find students enjoying the pleasure of these sports as players and audience.

MESS: The institute has its huge mess , which serves healthy and nutritious cuisines to its students.

CANTEEN: The institute has its own canteen, which serves healthy and nutritious food to its students at subsidized rates. The menu varies from spicy samosas, wafers to full-meals. The students also have a wide range of chocolates and soft drinks to choose from.

WATER & ELECTRICITY: The institute has complete arrangements to deliver uninterrupted water and electricity supply for the students, round the clock. Sufficient water coolers with filtered water are available throughout the campus to provide clean drinking water to the students. In case of power failures, high power generators are also available. Constant monitoring is carried out to ensure that cleanliness is given utmost importance.

HEALTH: Health is wealth. Keeping this in mind regular health checkup Camps are organized in the campus to examine the health of students and staff members. Acquisition of health related knowledge, attitudes, skills and practices empower students to pursue a healthy life. The energetic students take full advantage of every opportunity to learn and thus achieve higher - academic excellence & tend to maximize social relationships and interactions, thus improving their chances of balanced progress.

MEDICAL: Each hostel is provided with necessary first aid facilities. The Institute provides free first aid to the students in college campus during working hours. Qualified physicians are available in the close proximity of the college & hostels for consultancy.

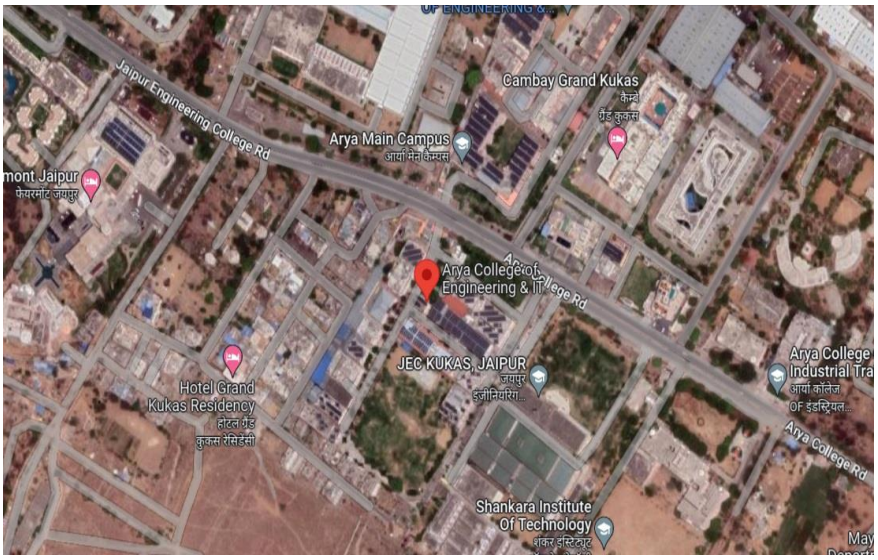
CAFETERIA

AUDITORIUM

WELL EQUIPED GYMS

HOSTEL

Geo Location
Geo Coordinates from Google maps:
27.0299119, 75.8913942



AUDIT PARTICIPANTS

On behalf of Arya Institute of Engineering & Technology

Name	Designation
Dr. Arvind Agarwal,	*President of Society*
Dr. Himanshu Arora	*Principal*
Dr. Pramod K. Sharma	*Audit Coordinator*
Er. Kshitiz Agarwal	*IQAC Director*
Er. Sandeep Jhamb	*H.O.D. Mechanical Engineering*
Mr. Rajesh Jaiswal	*Estate Manager*
Mr. Devendra Kumar Badiwal	*Accountant*

On behalf of EHS Alliance Services

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

EXECUTIVE SUMMARY

Green auditing is an essential step to identify and determine whether the institutional practices are sustainable and ecological. Traditionally, we were upright and efficient users of natural resources. But over the period of time, excessive usage of resources like water, electricity, petrol, etc. have become habitual for everyone especially, in urban and semi-urban areas. It is actually the right time to check if we (our process) are consuming more than required resources? Whether we are using resources sensibly?

Green audit standardizes all such practices and provides an efficient way to use natural resources. In the time of climate change and resource exhaustion it is necessary to re-check the processes and convert then in to green and sustainable. Green audit provides an approach for the same. It also increases overall awareness among the folks working in institution towards the eco-friendly environment.

This is the second attempt to conduct green audit of this campus for fulfilment of NAAC criteria. This audit was mainly focused on greening indicators like consumption of energy in terms of electricity and fossil fuel, quality of soil, water usage, vegetation, waste management practices and carbon foot print of the campus. Initially a questionnaire was shared to know about the existing resources of the campus and resource consumption pattern of the students and staff in the campus.

GREEN AUDIT - ANALYSIS

1.1 GENERAL INFORMATION

1. Does any Green Audit conducted earlier?

Yes, this is second external audit organized by the College

2. What is the total strength (people count) of the Institute?

Students
Male: 1343 Female: 277 Total: 1620

Teachers (including guest faculty)
Male: 99 Female: 66 Total: 165

Non-Teaching Staff
Male: 50 Female: 15 Total: 65

Total Strength
Male: 1492 Female: 352 Total: 1850

3. What is the total number of working days of your campus in a year?

There are two hundred and eighty-three working days in a year.

4. Where is the campus located?

The campus is located at SP-40 , Kukas, RIICO Industrial Area, Delhi Road, Jaipur -302028 , Rajasthan

5. Which of the following are available in your institute?

Garden area	*Available*
Playground	*Available*
Kitchen	*Available*
Toilets	*Available*
Garbage Or Waste Store Yard	*Available*
Laboratory	*Available*
Canteen	*Available*
Hostel Facility	*Available*
Guest House	*Available*

6. Which of the following are found near your institute?

Municipal dump yard	*Not in vicinity of institute*

Garbage heap	*No Garbage heaps*
Public convenience	*Public convenience is available*
Sewer line	*Approximately 1.0 KM sewer line within campus*
Stagnant water	*No stagnant water*
Open drainage	*No*
Industry – (Mention the type)	*No*
Bus / Railway Station	*Sindhi Camp Bus Stop, Jaipur Junction Station*
Market / Shopping complex	*Available*

1.2 WASTE MINIMIZATION AND RECYCLING

1. Does your institute generate any waste? If so, what are they?

Yes, Solid waste, Canteen waste, paper, plastic, horticulture, laboratories waste, e-waste, etc.

2. What is the approximate amount of waste generated per day? (in Kg approx.)

Biodegradable waste - 20 Kg
Non-biodegradable waste -5 Kg
Hazardous Waste - 2 Kg
Others < 1 Kg

3. How is the waste managed in the institute? By Composting, Recycling, Reusing, Others (specify)

- *Food waste is collected into biogas plant and composting machines*
- *Three Rain water harvesting pits are there in campus for ground water recharge*
- *STP (100 KLD) is installed for waste water treatment*
- *E-waste collection and management through recycled – authorized vendor*

4. Do you use recycled paper in institute?

Yes, college uses single sided used paper for rough work, assessment work and prints

5. How would you spread the message of recycling to others in the community?

Following are the ways through which college is spreading the awareness about recycling

- *Waste plastic collection drives*
- *Installation of Dustbins for waste plastic collection, e-waste collection and recycling*
- *Tie-ups with authorized e-waste collection agency*
- *Awareness among the Students by Webinars, seminars, Sign Boards, Posters, etc.*

6. Can you achieve zero garbage in your institute? If yes, how?

Not yet achieved. Possible through waste management policy and planning.

1. Minimization of waste production
2. Awareness workshops & trainings for students and faculty on Waste management

1.3 GREENING THE CAMPUS

1. Is there a garden in your institute?

Yes, about 3500 SQM areas are developed as Gardens.

2. Do students spend time in the garden?

Yes, students spend around 2-4 Hours during winters.

3. Total number of Plants in Campus?

Plant type with approx. count	
Full grown Trees	*80*
Small Trees	*250*
Hedge Plants	*1600*
Grass Cover sqm	*37,673.68 Sq ft*

4. Is the College campus having any Horticulture Department? (If yes, give details)

Yes, Total 4 staff (maali) deployed in horticulture department

5. How many Tree Plantation Drives organized by campus per annum?

Five Plantation Drives are Organized by campus in the last FY. 912 plants were planted in this FY. Survival rate is more than 80%.

6. Is there any Plant Distribution Program for Students and Community?

Yes, Plantations distribution drives conducted in nearby Villages under Unnat Bharat.

8. Is there any Plant Ownership Program?

No

1.4 WATER AND WASTEWATER MANAGEMENT

1. List uses of water in your institute

Basic use of water in campus:

Drinking *– 62.75 KL/month*

Gardening *– 17.64 Kl/month*

Kitchen and Toilets *– 362.65 KL/month*

Others *– 142.89 KL/month*

Hostel *– 2176.20 KL/Month*

Total = 2762.14 KL/Month

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

Available total water storage of the college is 10,000 x 4 = 40,000 litres

Saving Techniques

- *Avoid overflow of water-controlled valves are provided in water supply system.*
- *Close supervision for water supply system.*
- *Push taps are installed for water conservation*
- *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 *- Water comes from Municipal corporation supply and borewells*
Exit*- From Canteen, Toilets, Hostel, bathrooms and Labs through covered drainage which is connected to sewage treatment plant of capacity 100 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*
- *Push tap are installed to save water*
- *Water recycling and use of sprinklers for gardening*

1.5 ANIMAL WELFARE

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

5 dogs, 10 Cats, 20+ butterfly species, 100+ Squirrels and 30+ Birds are found in campus. A variety of bird's species and other flora and fauna are available, so institute is doing their bit for bio diversity conservation.

2. Does your institute have a Biodiversity Program or a KARUNA CLUB?

*Yes, Arya Institute of Engineering & Technology's **Eco club** actively organizes awareness through various campaigns and activities including seminars, poster competition, etc.*

1.6 CARBON FOOTPRINT - EMISSION & ABSORPTION

1. Electricity used per year - CO2 emission from Electricity

(electricity used per year in kWh/1000) x 0.84
= 310218/1000x0.84
= 260.58 tons

2. LPG/PNG used per year - CO2 emission from LPG/PNG

(LPG/PNG used per year in KG) x 2.99
=20791 x 2.99
=62.17 tons

3. Diesel used per year CO2 emission from HDS (Diesel)

(Diesel used per year in litres) x 2.68
=40374 x 2.68
=108.20 tons

4. Transportation per year (car) CO2 emission from transportation (Bus and Car)

There are 7 Cars, 7 buses, 1 tractor, 1 tempo and 1 tanker
*=(10*2*2*180/100)*0.01 + (7*4*2*180/100)*0.02*
=1.69 tons

Total CO2 emission per year cumulative by electricity usage + LPG + Diesel + bus and car is 432.64 tons.

After considering carbon absorption capacity of campus and solar energy export, the total carbon emission is 316.98 tons

CARBON ABSORPTION BY FLORA IN THE INSTITUTION

There are 80 full grown trees and 250 semi grown trees of different species, on the campus spread over 37673.68 sq ft.

Carbon absorption capacity of one full grown tree 22 kg Co2 Therefore Carbon absorption capacity of 80 full-grown trees 80 x 22 kg Co2 = 1.76 tons of Co2.

The carbon absorption capacity of 250 semi-grown trees is 50% of that of full-grown trees. Hence the carbon absorption 250 x 6.8 kg of Co2 = 1.70 tons of Co2

There are approximately Hedge Plants 1600 of various species being raised in the gardens and grown in the areas where no buildings are built Carbon absorption of bush plants varies widely with their species. Certain bushes absorb very high level of Co2 where as some others absorb very low level of Co2. In the absence of a detailed scientific study, 200g of Co2, absorption is taken per bush (in consultation with Environmental Science specialists). Based on this, total carbon absorption of bushes is 1600 x 200 g = 0.32 ton of Co2

The lawns on the campus have buffalo grass, Mexican grass and indigenous grass species and cover a total area of 37673.68 sq. ft. Carbon absorption capacity of a 10 sq. ft. area of lawn is 1 g per day Therefore, carbon absorption by lawn area 37673.68 x 365 x 0.1 g Co2 = 1.38 tons Co2 per year.

Total of carbon absorption capacity of the campus is 5.16 tons.

GREEN INITIATIVES BY CAMPUS

- **Solid Waste Management**
  - Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
  - College has fully functional bio gas plant
  - Reduce use of paper by supporting digitization of attendance and internal assessment records.
  - Reduce requirement of printed books by updating the e-books and e-journals collection of the college library.
  - Take initiatives to spread awareness amongst students about food wastage and ways of minimizing it
  - The habit of reusing and recycling non-biodegradable products
  - Organizing workshops for students on solid waste management.
  - There is ban on single use plastic and plastic crockery in the campus.

- **Liquid Waste Management**
  - Maintain leak proof water fixtures.

- Minimize the use of water by constructing more Indian style toilets instead of western style toilets.
- Continued employment of a caretaker to take immediate steps to stop anywater leakage through taps, pipes, tanks, toilet flush etc.
- Reuse of wastewater generated by the Reverse Osmosis (RO) system in washrooms.
- Urinals are installed in boys washroom to reduce water wastage
- STP is installed for waste water treatment

- **E-waste Management**
  - College has a separate storeroom for the safe storage of electronic waste. After a certain interval of time college disposes of the E-waste to concerned agencies through the auction process.

- **Rain water harvesting**
  - College has 3 rainwater harvesting pits for better groundwater recharge. The stored water in this tank can be used for gardening purposes

- **Renewable Energy**
  - The college has also installed solar PV (450 KW) on the rooftop of building.
  - The College is using solar lights for street lights.
  - The college believes in using cleaner energy such as LED lighting.

- **Air Pollution Reduction**
  - Personal Vehicles (Students) are not allowed in the campus

RECOMMENDATIONS

- Environmental parameters shall be included in purchase policy to achieve a cradle to grave approach for sustainability.

- College should start drip irrigation to save water in campus

- Flow rate of taps should be checked, it should not be more than 2.5 litres/minute.

- Arrange training programmes on environmental management system and nature conservation for schools and local people.

- Involve lower hierarchy staff in environmental awareness programmes and campaigns.

- More Messages should be displayed at various locations to Aware the People about Energy Savings
- Water Meter should be installed at every building of institute for monitoring of water consumption per capita.
- Borewell permission should be taken from authorised government department
- Car-pooling practices can be adopted by campus to minimize air pollution. Increase in the display of environment-conscious posters/paintings/slogans for spreading awareness amongst students.
- Plant Ownership Program should be initiated – Several Trees should be Planted and owned by Visitors as well as students. The Nameplates should also be displayed near the plants.
- Messages should be displayed at various locations to Aware the Peoples about Energy Savings
- Green building guidelines for future expansion projects of the campus.

CONCLUSION

This audit involves considerable team discussions and meetings with key staff members on a variety of environmental-related topics. The eco club of Arya Institute of Engineering & Technology promotes conservation of resources.

Overall 50% of Arya Institute of Engineering & Technology is for landscaping. The college makes a significant effort to act in an environmentally responsible manner and takes into account the environmental effects of the majority of its activities. The recommendations in this report suggests some more ways in which the college can work to improve its practices and develop into a more sustainable institution.

It's important to begin a few things, such as initiating drip irrigation, and increase plantation drives. Additionally, we strongly advise to sign MOU with third party authorised vendors for waste management such as plastic, paper, metal, C&D, etc.

REFERENCE

- 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

ANNEXURE – PHOTOGRAPHS OF ENVIRONMENT CONSCIOUSNESS

Well maintained campus

New age building

Lush green campus

Sports Ground

Paving stone installed in campus

Color coded dustbins

Ornamental plants in campus

Indoor plants in campus

Classrooms as per NBC guidelines with more than 40% window ratio

Spacious and well equiped labs

Well equiped labs

Spacious Auditorium

Smart Class rooms

Plantation drive by the students

Campus cleanliness drive by students

Clothes, E-waste and Books donation box

Reusing plastic waste

Best out of waste activity

Rain water harvesting pit

STP

Compost machine

Biogas plant

RO for water filteration

Solar panel

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