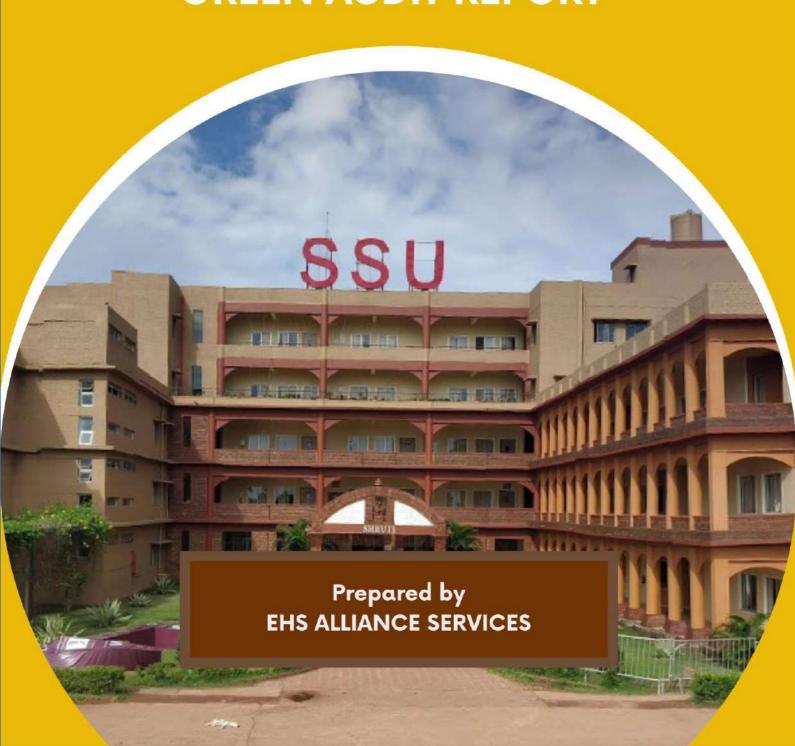


SRI SRI UNIVERSITY

GREEN AUDIT REPORT



AUDIT CERTIFICATE 1 2 ACKNOWLEDGEMENT 3 DISCLAIMER **CONTEXT & CONCEPT** 4 5 **INTRODUCTION OVERVIEW OF UNIVERSITY** 6 MISSION VISION & PHILOSOPHY 8 **AUDIT PARTICIPANTS** 10 **EXECUTIVE SUMMARY** 10 GENERAL INFORMATION OF UNIVERSITY 11 WASTE MINIMIZATION AND RECYCLING 12 GREENING THE CAMPUS 12 WATER & WASTEWATER MANAGEMENT 14 ANIMAL WELFARE 15 **CARBON FOOTPRINTS** 15 16 INITIATIVES TAKEN BY UNIVERSITY RECOMMENDATION 17 19 **CONCLUSION** REFERENCE 19 ANNEXURE – PHOTOGRAPHS OF ENVIRONMENT CONSIOUSNESS 20

Certificate - Green Audit



CERTIFICATE No. EHSAC2123A

CERTIFICATE

M/s Sri Sri University Cuttack - Odisha

Sri Sri Vihar, Ward No - 3, Godi Sahi, Cuttack - 754006 Odisha, India

Has been assessed by us for the comprehensive study of environmental impact on institutional working framework to fulfill the requirement of

Green Audit

The green 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 the green campus of the university and sustainability are highly appreciated and noteworthy.

Date of Audit: 27 Dec, 2021



EHS Alliance Services

Plot No A-72, Surya Vihar, Near Sector-4, Gurugram (Haryana)-122001 Phone-0124-2250624, Email: ehsalliance@gmail.com, www.eshall.in

Acknowledgement

EHS Alliance Services audit team thanks the management of Sri Sri University - Cuttack for assigning this important work of Green audit. We appreciate the co-operation to our team for completion of study.

Our special thanks are due to:

- Prof. (Dr.) Ajay Kumar Singh Vice-Chancellor
- Mr. Pankaj Vij Dy. Director of Operations
- Prof. (Dr.) Jay Prakash Bhatt Chairperson of SDG UI Green Matrix

We are also thankful to the staff members for giving us necessary inputs to carry out this very vital exercise of Green Audit, who were actively involved while collecting the data and conducting field measurements.



Disclaimer

EHS Alliance Services Green Audit Team has prepared this report for Sri Sri University Cuttack 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 externally on behalf of your organization, then all pages must be included.

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Dr. Uday Pratap

Lead Auditor ISO 14001-2015

Puneet Kaushik

Canthy

EHS Consultant & Lead Auditor EMS

Context and Concept

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 University 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/university 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 university/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 are discussed below.



Introduction

Now 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...

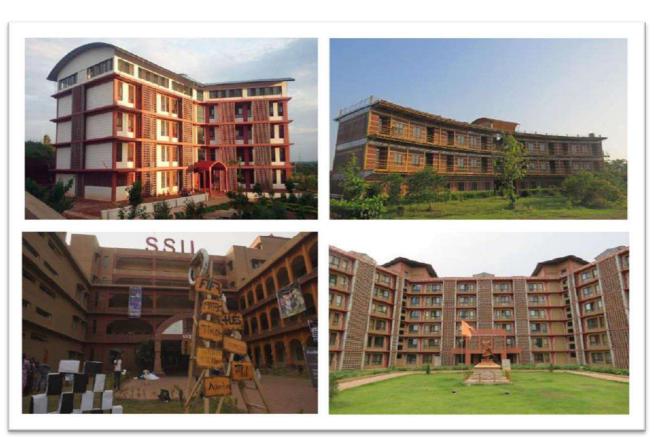
The activities carried out by the institution can also create adverse environmental impacts. Green audit is defined as an official inspection of the effects a University has on the environment. Green Audit is conducted to evaluate the actual scenario at the institution campus. Green audit can be a useful tool for a University/college to determine how and where they are using the most of the energy or water or resources; the University 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



Overview of University

Sri Sri University, Cuttack, Odisha founded on the ideals of imparting quality and holistic education envisions to be the global powerhouse of producing skilled graduates who would stand to offer out-of-the-box solutions, and above all be humane. Sri Sri University (SSU) came into operation in the year 2012 and is emerging as a centre for premium education in India, aimed at blending the "Best of East & West". This university is uniquely placed in offering education that combines Western innovation with the ancient values and wisdom from the East.



The sprawling 188 acres of green beauty is the campus of Sri Sri University. Located on the banks of a tributary of the mighty river Mahanadi, it's located in Ward No – 3, Sandhapur, Godi Sahi, Cuttack Bidhayadharpur, Odisha 754006. The campus includes the admin block, the academic block, a well-equipped computer lab, a well-updated library, seminar halls, comfortable hostels, Vidya (skill training center) and a cafeteria. The campus also includes sports and recreational facilities including a basketball court and a gymnasium. The campus is Wi-Fi enabled, with 24*7 connectivity.

The academic block of the Faculty of Management Studies offers fully air-conditioned, spacious classrooms with LCD projectors as well as faculty rooms, tutorial rooms, and a language lab.

In its holistic mission, the University has formulated its curricula integrating the different philosophies and modern technicalities and learning aids.

The university offers a unique education that brings together the best of Western innovation with the ancient values and wisdom of the East. The university offers a range of pivotal as well as unique courses that seek to preserve the ancient wisdom of the East and

offer the best of Western innovation through cutting-edge programs. Sri Sri University today offers value-based education in specialized areas of study including Management, Yoga, Governance, Sanskrit, Philosophy, Engineering, Architecture, Health and Wellness, Liberal Arts and Performing Arts.



Sri Sri University takes pride in offering a curriculum that enriches both domain expertise and life skills. The university provides a unique social culture which nurtures a rich learning environment and aids excellence in students through its virtually smoke-free, alcohol-free ,drug-free and completely vegetarian campus. The Art of Living Program (Happiness Program) is an integral part of the curriculum at Sri Sri University. The program provides participants with practical tools and techniques, including yoga, meditation and pranayama, to effectively handle stress.

In the next five years, the campus is poised to become a multi-disciplinary educational hub hosting over 7500 students.

Sri Sri University

Mission | Vision | Philosophy



To create centres of excellence in knowledge and research across the fields of study in order to equip students to achieve the highest levels of professional ability in a learning atmosphere that fosters human values to serve the needs of local, national and global economies.

India's first smoke, alcohol & drug free campus

En<u>vision</u>ed by Sri Sri Ravi Shankar Ji, Sri Sri University was established in 2009 as a centre for world-class education in India.

The university offers a unique education that brings together the best of Western innovation with the ancient values and wisdom of the East. The university offers a range of pivotal as well as unique courses that seek to preserve the ancient wisdom of the East thorough programs in yoga and naturopathy, classical performing arts and offer the best of Western innovation through cutting-edge programs in Osteopathy, Engineering and Craniosacral therapy, good governance and management.

MISSION

To impart holistic and value-integrated education in order to develop visionary thinkers with social-consciousness to lead and precipitate inevitable changes, with summative call for Learn – Lead – Serve

VISION

Eastern philosophy thrives on virtues. Western philosophy focuses on ethics. Eastern philosophy is more about the spiritual while Western philosophy is more of a hands-on style. True success is measured by one's inner strength to handle situations with balance and ease. And Eastern philosophy prepares one in this direction.

Sri Sri University (SSU) came into operation in the year 2012 and is emerging as a centre for premium education in India, aimed at blending the "Best of East & West". This university is uniquely placed in offering education that combines Western innovation with the ancient values and wisdom from the East.

It offers a range of pivotal as well as unique courses that seek to preserve the ancient wisdom of the East through programmes in Yogic Science, classical Visual and Performing Arts on one hand and offers the best of western innovation through cutting-edge programs in Osteopathy, Engineering and Management on the other. Over the years, it is rapidly evolving into a multi-disciplinary education hub, with its foundation strongly rooted in spiritual, cultural and academic excellence.

Sri Sri University, Cuttack, Odisha



Geo Coordinates from Google maps: 20.4515968, 85.7798529

Audit Participants

On behalf of University:

Name	Position/Department
Prof. (Dr.) Ajay Kumar Singh	Vice Chancellor of Sri Sri University
Prof. (Dr.) B. R. Sharma	Executive Registrar
Prof. (Dr.) Jay Prakash Bhatt	Chairperson of UI Green Matrix committee
Mr. Pankaj Vijh	Dy. Director of Operations
Mr. Saurabh Baweja	Art of Living Teacher
Mr. Malay Malla	Manager (Operations)

On behalf of EHS Alliance Services:

Name	Position	Qualification
Dr. Uday Pratap	Lead Auditor	Ph.D. , PDIS, QCI – WASH, Lead Auditor ISO 14001:2015
Puneet Kaushik	Co- Auditor	M.Sc. M.Tech, PGDISM, Lead Auditor ISO 14001:2015, OHSAS

Executive Summary

Green auditing is an essential step to identify and determine whether the institutions 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 it in to green and sustainable. Green audit provides an approach for it. It also increases overall awareness among the folks working in institution towards the eco-friendly environment.

This is the first attempt to conduct green audit of this university 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 staffs in the university.

Green Audit - Analysis

General		

Does any Green Audit conducted earlier?

No, This is first time a systematic way of monitoring their environmental eminence initiativetaken by University for environment protection.

What is the total permanent population of the Institute?

Population	Male	Female	Total	
Students	1036	1039	2075	
Teachers	88	66	154	
Non-Teaching Staff	84	32	116	
Total	1208	1137	2345	

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

There are two hundred twenty five (225) working days in a year.

Where is the campus located?

The campus is located at Sri Sri Vihar, Ward No – 3, Godi Sahi, Cuttack – 754006 Odisha, India

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	Yes
Canteen	Available
Hostel Facility	Yes
Guest House	Yes

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	2 KM sewer line within campus
Stagnant water	No stagnant water
Open drainage	No
Industry - (Mention the type)	No
Bus / Railway station	Bhubaneswar Airport, Cuttack Rly Stn.
Market / Shopping complex	No

I. Waste Minimization and Recycling

Does your institute generate any waste? If so, what are they?	Yes, Solid waste Canteen waste, paper, plastic, Horticulture Waste etc.
What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	Bio Degradable - 2000 Kg Non-Biodegradable - 300 Kg Hazardous - 30 Kg Others - NA
How is the waste generated in the institute managed? By 1 Composting 2 Recycling 3 Reusing 4 Others (specify)	 Reuse of one side printed Paper for internal communication. Sewage water is treated by STP with capacity of 250 KLD. Two types of Waste bins are provided at campus for biodegradable and non-biodegradable waste. Solid waste is also given to municipal corporation Composting is done for horticulture waste management.
Do you use recycled paper in institute?	Yes
How would you spread the message of recycling to others in the community?	Various campaigns and webinars by Students to increasing awareness as per the annual theme of the World Environment Day
Can you achieve zero garbage in your institute? If yes, how?	Not yet achieved. Possible through waste management policy and plan.

II. Greening the Campus

Is there a garden in your institute?	Yes, about 378224 Sq. Meter areas are developed as Gardens.	
Do students spend time in the garden?	2-4 Hours during win	ters
	Plant type	Approx. number
	Full grown Trees	71101
Total number of Plants in Campus	Small Trees	30000
	Hedge Plants	115000
	Grass Cover SQM	529514
Is the university campus having any Horticulture Department? (If yes give details)	Yes, Total 32 staff deployed in horticulture	
Number of Tree Plantation Drives	Annually, around 20 times Tree Plantation Drives	

organized by campus per annum. (If Any)	are Organized by campus. Total 3500 trees and hedge plants planted in this Financial Year with more than 90% survival rate.
Plant Distribution Program for Students and Community	Yes, Saplings are distributed to Students and visitors at various Occasions. Besides this landscape of some area in city are developed by Institute. (photographs attached in annexure)
Plant Ownership Program	NA

In campus, saplings are distributed to Students and visitors at various occasions. Indoor plants also maintained by campus to reduce indoor pollution. An herbal garden is also maintained by the department of pharmacy. (*Photographs attached in annexure*)

Plants	VOC it removes	Source of VOC's	Plant care
Aloe Vera	Formaldehyde, Trichloroethylene and Benzene	Chemical based cleaners and paints	Easy to grow with enough sunlight
Bamboo Plant	Formaldehyde, Trichloroethylene and Benzene	Paints, Plastics, Wood products etc.	Thrives under low light conditions as well as easy to maintain
Chinese Evergreen	Benzene	Paints	Low maintenance plant that prefers low light conditions.
English Ivy	Formaldehyde, Benzene, Air borne fecal matter particles	Wood, Paper products, Air borne fecal – matter particles from pests	Easy to maintain

III. Water and Wastewater Management

Basic use of water in campus: Drinking = 27.6 KL/month Gardening = 6.3 Kl/month Kitchen and Toilets = 437.4 KL/month Others = 89.3 KL/month How does your institute store water? Are there any water saving techniques followed in your institute? How does your institute store water? Are there any water saving techniques followed in your institute? Tank 1000 LTR TANK			
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Others – 89.3 KL/month Hostel – 3240.0 KL/Month Total = 3800.70 KL/Month There are total 902000 liters water storage of water and boosting within the university campus. TANK DESCRIPTION QUANTITY TANK 1000 LTR 7 TANK 1000 LTR 57 TANK 6000 LTR 57 TANK 6000 LTR 57 TANK 6000 LTR 1 OVER HEAD TANK 100000 1 SUMP TANK 1000		Gardening – 6.3 Kl/month	
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	Is there any water recycling System.	STP - 250 KLD	

IV. Animal Welfare

List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)	Birds, Dogs, Cats and Squirrels are commonly found in campus. A variety of bird's species and other flora and fauna available, so institute doing their bit for its conservation.
Does your institute have a Biodiversity Program or a KARUNA CLUB?	Yes SDG committee actively organizes awareness through campaigns and poster competition.

V. Carbon Footprint - Emission & Absorption

Total Carbon Footprint (CO₂ emission per year, in metric tons)

1. Electricity used per year CO ₂ emission from electricity	(electricity used per year in kWh/1000) x 0.84 1454656.96 kWh/1000 x 0.84 =1454656.96 /1000x0.84 =1221.91 ton
2. Transportation per year (Bus) CO ₂ emission from transportation (Bus)	(Number of the shuttle bus in our University x total shuttle bus service each day x approximate distance travelled by the vehicle inside the campus in kilometres x 225 /100) x 0.01 =5x2x1x225/100x0.01 =0.225 ton
225 working days per year, 0.01 is the coefficient to calculate the emission in metric tons per 100	
3. Transportation per year (car) CO ₂ emission from transportation (car)	(Number of cars entering University campus x 2 x approximate distance travelled by the vehicle inside the campus in kilometres x 225/100) x 0.02 = 10x2x2x225/100x0.02 = 1.8 ton

Total CO_2 emission per year cumulative by electricity usage + bus transportation + car transportation (1221.91+0.225+1.8) = 1223.94 ton

Carbon absorption by flora in the institution

There are 71101 full grown trees and 30000 semi grown trees of different species, on the campus spread over 207.69 acres.

Carbon absorption capacity of one full grown tree 22 kg CO_2 Therefore Carbon absorption capacity of 71101 full-grown trees 71101 x 22 kg CO_2 1564222 kg of CO_2 1564.22 tons of CO_2 .

The carbon absorption capacity of 30000 semi-grown trees is 50% of that of full-grown trees. Hence the carbon absorption 30000 x 6.8 kg of CO_2 = 204000.00 kg of CO_2 = 204.00 tons of CO_2

There are approximately Hedge Plants 115000 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 CO_2 where as some others absorb very low level of CO_2 . In the absence of a detailed scientific study, 200g of CO, absorption is taken per bush (in consultation with Environmental Science specialists).

Based on this, total carbon absorption of bushes is $115000 \times 200 \text{ g}$ 5, = 23000.00 kg = $23.00 \times 200 \text{ g}$ tons of CO_2

The lawns on the campus have buffalo grass, Mexican grass and indigenous grass species and cover a total area of 5699641.26 sq. ft.

Carbon absorption capacity of a 10 sq. ft. area of lawn is 1 g per day Therefore, carbon absorption by lawn area $5699641.26 \times 365 \times 0.1 \text{ g CO}_2 = 208036.91 \text{ kg CO}_2$ per year, Total carbon absorption per year is 208.04 tons of CO_2

Grand total of carbon absorption capacity of the campus is 1999.26 tons

University is doing their best towards carbon neutrality.

Green Initiatives by campus

Renewable Energy - Solar power plant of capacity 10 KW is installed on building roof that will supply approx. 1% of total power in campus. University is in process to install 300 KW solar plant with target power generation of 40% of total power requirements.

Biodiversity Conservation –Flora and fauna conservation program and awareness campaign organised as per the local geography.

Tree Plantation Drives - Twenty Drives Annually as well as Every Guest is honoured by Tree Plantation at Campus.

Ground Water Recharge - 4 units of Rain Water Harvesting System of 1.7 million litres ground water recharge capacity (annually).

Air Pollution Reduction Personal Vehicles (Students) not allowed at campus and university provides Bicycle in campus area.

Solid Waste Management – Waste segregation and management by the third party and waste minimization practices adopted by the campus like avoidance of food waste, ban on plastic crockery in the campus.

Environment Committee – SDG - UI Green Metrics committee has total 21 members and headed by Prof (Dr.) Jay Prakash Bhatt.

University Clubs – Sri Sri University has different clubs such as Bike Cycling Club, Birding Club, etc. for engaging students in awareness programmes

University is saving water by doing drip irrigation, and saving energy by using air source heat pump water heaters in the campus.

Recommendations

- Water Meter should be installed at every building of institute for monitoring of water consumption per capita.
- University should go for water balancing / audit for monitoring the use and wastage of water.
- Increase in display of environment conscious poster/paintings/slogans in the building for spreading awareness amongst students.
- Save Energy' Messages should be displayed at various locations to aware the students and staff about energy Savings.
- Usage of curtains should be restricted in day time in order to get maximum natural light in classrooms.
- Enhance recycling This can be done by creating a group where students can recycle books, personal clothes and other material to needy students. This can be an initiative under green program.
- Eco-friendly parameters should be included in the purchase of articles and goods for the university campus.
- Solar powered street lights and LED display board should be there in university campus
- Reduction in use of paper work by go digital system.

Transparency of Green Audit Report

Green audit report is one of the useful means of demonstrating an organization's commitment to openness and transparency. If an Organisation believes it has nothing to hide from its stakeholders, then it should feel confident enough to make its green audit reports freely available to those who request them. As a basic rule, green audit reports should be made available to all stakeholders.



Conclusion

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. Sri Sri University has SDG Committee for sustainable use of resources. Overall 80% of University campus is for landscaping. The audit has identified several observations for making the campus premise more environment friendly. The recommendations are also mentioned with observations for University campus team to initiate actions. The audit team opines that the overall site is maintained well from environmental perspective. There are no major observations but few things are important to initiate urgently are installation of water meters and water balancing report.

REFERENECE:

- 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 – Environmental Consciousness























