

# GREEN AUDIT

STUDY PERIOD (TWO YEARS) 2022 – 2023 & 2023 - 2024

Sustainability study  
**AUDIT REPORT**

Studied for  
**A. J. Institute  
of Engineering & Technology**  
NH-66, Kottara Chowki,  
Mangaluru-575006

Studied in the capacity of  
Accredited and Certified GBP



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## Disclaimer

The Audit Team has prepared this report for the **A. J. Institute of Engineering & Technology** located NH-66, Kottara Chowki, Mangaluru-575006 based on input data submitted by the Institute analysed by the team to the best of their abilities.

The details have been consolidated and thoroughly studied as per the various guidelines for Green Buildings available in National and International Standards; the report has been generated based on comparative analysis of the existing facilities and the prerequisites formulated by various standards. The inputs derived are a result of the inspection and research. These will further enhance and develop a Healthy and Sustainable Institution.

These can be implemented phase wise or as a whole depending on the decision taken by the internal team. The warranty or undertaking, expressed 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.

The audit is a thorough study based on the inspection and investigation of data collected over a period of time and should not be used for any legal action. This is the property of Greenvio Solutions and should not be copied or regenerated in any form.

The Report is prepared by the Team of Greenvio Solutions under their brand and department – Sustainable Academe as Consultancy firm with the Project Head - Ar. Nahida Shaikh who is as an Accredited and Certified Green Building Professional-Architect. Green Building consultancy is her forte and she is one of the most sought after names when it comes to providing excellent quality services within the stipulated time frame.

The Study is conducted in capacity of Accredited & Certified Green Building Professional with extensive experience.

**Ar. Nahida Abdulla**

**Greenvio Solutions**

*Developing Healthy and Sustainable Environments*

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# Acknowledgement

The Audit Assessment Team extends its appreciation to the **A. J. Institute of Engineering & Technology** for assigning this important work of Green Audit. We appreciate the cooperation extended to our team during the entire process.

Our special thanks are extended are due to everyone from the Management.

Our heartfelt thanks are extended to the Chairperson of the entire process **Dr. Shantharama Rai C**, (Principal) for the valuable inputs.

We are also thankful to Institute's Task force who have played a major role in data collection.

- Teaching staff member – **Dr. John Prakash Veigas**, Assoc. Prof & HOD-AIDS
- Non-teaching staff member – **Mr. Abhishek Shetty**, Maintenance Engineer
- Admin staff member - **Mrs. Smitha Shetty**, Office Superintendent

## Sustainable Academe

Brand of Greenvio Solutions, Palghar District, Maharashtra- 401208

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# 1. Introduction

## 1.1 About statements of the Institute

### 1.1.1 Vision

The Institute proposes "To produce top-quality engineers who are groomed for attaining excellence in their profession and competitive enough to help in the growth of nation and global society."

### 1.1.2 Mission

The Institute adheres:

- To offer affordable high-quality graduate program in engineering with value education and make the students socially responsible
- To support and enhance the institutional environment to attain research excellence in both faculty and students and to inspire them to push the boundaries of knowledge base
- To identify the common areas of interest amongst the individuals for the effective industry- institute partnership in a sustainable way by systematically working together
- To promote the entrepreneurial attitude and inculcate innovative ideas among the engineering professionals

## 1.2 Assessment of the Institute

The Institute was established in 2016.

### 1.2.1 Affiliations

The courses provided by Institute have received affiliation through the **Visvesvaraya Technological University (VTU), Belagavi, Karnataka.**

### 1.2.2 Certification

**AISHE** – The All India Survey of Higher Education code is C-56446

### 1.2.3 Approval

The courses by the Institute have received approval through **All India Council for Technical Education (AICTE), New Delhi.**

DETAILED REPORT

## 2. Overview

### 2.1 Summarised Populace analysis for 2023-2024

#### 2.1.1 Students data

The data (shared by the Institute) shows there were **1,251 students**.

#### 2.1.2 Staff data

S. No.	Type	Male	Female	Total
1	Admin staff	14	20	34
2	Teaching staff	41	48	89
3	Non-Teaching staff	11	16	27
<b>Total Staff Members</b>		<b>66</b>	<b>84</b>	<b>150</b>

*Table 1: Staff data of the Institution for 2023-2024*

The staff data shows the Institute premises had **150 Staff Members**.

### 2.2 Summarised Populace analysis for 2022-2023

#### 2.2.1 Students data

The data (shared by the Institute) shows there were **1,039 students**.

#### 2.2.2 Staff data

S. No.	Type	Male	Female	Total
1	Admin staff	10	21	31
2	Teaching staff	46	34	80
3	Non-Teaching staff	12	23	35
<b>Total Staff Members</b>		<b>68</b>	<b>78</b>	<b>146</b>

*Table 2: Staff data of the Institution for 2022-2023*

The staff data shows the Institute premises had **146 Staff Members**.

## 3. Research

### 3.1 Campus area

The **site spread over 0.5 acres of land.**

### 3.2 About the Green Building Study Audit

It is a systematic study of the aspects which make the Institution sustainable and healthy premises for its inhabitants.

### 3.3 Analysis of the Green Building Study Audit

The procedure included detailed verification as follows:

- ➔ Investigation
- ➔ Technical
- ➔ Observations
- ➔ Inferences

### 3.4 Strategy adopted for Green Building Study Audit

The strategies included data collection from the admin department, actual inventory, investigation to check the operation and maintenance, analysis of the data collection, and preparation of the Report.

## 4. Investigation

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**Evidence documents for Site visit of external audit team**


Audit team headed by external expert - Ar. Nahida Abdulla  
Accredited & Certified Green Building Professional, ISO IA (IMS)  
Audit objective: Green Building up gradation of the premises

Audits covered:  Green audit     Energy audit     Environment audit


Institute: AJ Institute of Engineering & Technology    Date: 08.05.2024


**Document objective: Inferences of the Site visit**

Observations (Positive aspects)	Suggestions (Improvement aspects)
<b>Green Audit</b>	
- Water management, harvesting, recycling all practices are well maintained	- Waste management practices can be improved
<b>Energy Audit</b>	
- Solar panel is one of the blocks. - Fine 3 life safety measures are good.	- Scope to improve energy production due with solar panels, hot-water heater, sensor based facilities
<b>Environment Audit</b>	
- Good green cover 3 plantations - Overall good ambience	- Documentation 3 reflectance can be improved




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**Plate 1: Evidence files related to inferences of the site visit**

### Evidence documents for Site visit of external audit team

Audit team headed by external expert - Ar. Nahida Abdulla  
Accredited & Certified Green Building Professional, ISO IA (IMS)  
Audit objective: Green Building up gradation of the premises

Audits covered:  Green audit       Energy audit       Environment audit

Institute: *AJ Institute of Engineering and Technology*      Date: *08.05.2024*

#### Document objective: Proof of the Site visit



Meeting with the core team



Investigation of the systems

  
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**Plate 2: Evidence files related to the site visit**

**Evidence documents for Site visit of external audit team**

Audit team headed by external expert - Ar. Nahida Abdulla  
 Accredited & Certified Green Building Professional, ISO IA (IMS)  
 Audit objective: Green Building up gradation of the premises

Audits covered:  Green audit  Energy audit  Environment audit

Institute: AJ Institute of Engineering & Technology Date: 08.05.2024

**Document objective: Induction Meeting attendance sheet**

S. No.	Name	Committee	Designation	Signature
1.	Mrs. F. A. Shaikh	External	Project Coordinator	
2.	Ar. Nahida Abdulla	External	Project Head	
3.	DR. Shivakumar Rai	Internal	Principal	
4.	Dr. P. Mahabaleswaram	Internal	Dean Academics	
5.	Dr. Antony P J	Internal	Vice Principal	
6.	Dr. John P. Velgas	Internal	HOD - AI & DS	
7.	Dr. Amarnath	Internal	Prof. (Civil)	
8.	N. ARUL	"	N. ARUL	
9.	Jithendra N.K	"	Asst. Prof (ECE)	
10.	Nitesh	"	Asst Prof (CV)	
11.	Renuka K. Kothari	"	Asst. Prof (Chemistry)	
12.	Rachana Kunder	"	Asst. Prof (Chemistry)	
13.	Dr. Laxmi Guleppagol	"	Associate Prof & HOD ICB	
14.	Amogh Shetty	"	Asst. Prof (Physics)	
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Plate 3: Evidence file related to induction meeting attendance record



**Evidence documents for Site visit of external audit team**

Audit team headed by external expert - Ar. Nahida Abdulla  
 Accredited & Certified Green Building Professional, ISO IA (IMS)  
 Audit objective: Green Building up gradation of the premises

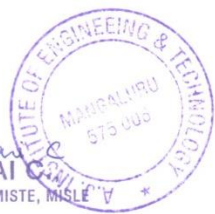
Audits covered:  Green audit  Energy audit  Environment audit

Institute: AJ Institute of Engineering & Technology Date: 08.05.2024

**Document objective: Exit Meeting attendance sheet**

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5.	Dr. Anthony P S	Internal	Vice Principal	
6.	Dr. John P. Veigas	Internal	HOD - AI & DS	
7.	Dr. Amarnath	Internal	Prof (civil)	
8.	Dr. Sadananda KV	Internal	HOD - PHYSICS	
9.	Jithendra. N. K	"	Asst. Prof. (CECE)	
10.	Nitesh	Internal	Asst Prof (CV)	
11.	Mrs. Nidhi. T. N	Internal	Asst. Professor (Physics)	
12.	Mrs. Divya. M. Kothari	Internal	Asst. Prof (Chemistry)	
13.	Mrs. Radhika K	Internal	Asst. Prof (Chemistry)	
14.	Dr. Laxmi Guleppa	Internal	Associate Prof & HOD IIS	
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**Plate 4: Evidence file related to exit meeting attendance record**



## 5. Documentation

### 5.1 Green Practices Audit

The increasing global warming and climate change have made us realise that apart from the enormous strategies the individual small efforts need to be taken by individuals and Educational Institutes as the younger generations are the future of the world and once they are taught about these practices only then can we assume a better future.

#### 5.1.1 Green practices

We observed the following points during the Site investigation and data verification of the premises; these are common for all the Buildings in the premises.

- **Plants as a gift** - *As a kind gesture, the guests visiting the premise are asked to plant a small sapling on the premise itself, this is a special feature adopted by the Institute.*
- **Social awareness** - *The Institute has taken up awareness drives on various social issues for rural upliftment and regeneration in the Institute and surrounding villages.*
- **Fresh environment** – *The Institute provides an eco-friendly ambience with fresh air and soothing environment which helps to maintain a physical and mental balance. This kind of a space it a must for an educational institute is inviting and gives the stakeholders an opportunity to explore indoor and outdoor learning to a great extent.*
- **Signages on the plants mentioning scientific names** - *The practice of having the names of each plant and tree is executed by the Institute and is very beneficial.*

#### 5.1.2 Community development

The details of **extension initiatives** under various heads in Institute are documented below:

S. No.	Type	Since	Coordinator name
1	National Service Scheme (NSS)	2016	Dr Sadananda Kumar N
2	Neighborhood development scheme	2021	Prof. Nitesh

*Table 3: Details of the extension initiatives by the Institute*

The details of the **environmental activities** conducted as part of the extension initiatives by the Institute documented below:

S. No.	Initiative	Information	Date
<b>Academic year one (June 2023 – April 2024)</b>			
1.	World environmental day	Cycle <i>Jatha</i>	05-06-2023
2.	World environmental day	Planting samplings in the campus	
3.	Vanamahotsava	Planting samplings around the campus	03.07.2023
4.	Visit nearby village by CIVIL and ECE students at Sasihithlu	To create the awareness about the waste	08.08.2023
5.	Know your plants at <i>Mannagudda</i> mangalore	Plantation and cleaning	26.08.2023
6.	Visit nearby village by CS students at <i>Haleangadi</i>	Cleaning the surroundings	09.09.2023
7.	<i>Swachhata Hi Seva</i> at Sooringe Grama Panchayath	Cleaning the surroundings	23.09.2023 – 02.10.2023
8.	Tourism promotion at kavalamudur village	Cleaning the surroundings	13.11.2023 – 27.11.2023
9.	Beach clean at <i>Panambur Beach</i>	Cleaning the surroundings	24.12.2023- 31.12.2023
10.	<i>Swachh bharath</i> -beach cleaning at <i>Tannirbhavi Beach</i>	Cleaning the surroundings	17.12.2023 – 31.12.2023
<b>Academic year one (June 2022 – May 2023)</b>			
1.	Water conservation at Nirmiti Kendra Surathkal (SCR)	Cleaning the surroundings	02.12.2022
2.	Beach clean at <i>Thannirbhavi</i>	Cleaning the surroundings	01.01.2023
3.	Beach cleaning at <i>Thannirbhavi</i> beach	To keep the beach clean and avoid the pollution	12.01.2023
4.	Garbage disposal at <i>Surathkal</i>	Cleaning the surroundings	29.01.2023 - 13.02.2023

5.	<i>Swachh Bharat Abhiyan - street cleaning</i>	With the intension of cleaning streets of <i>Barebail Yeyyadi</i> 77 students participated in it.	15.02.2023
6.	<i>Swachh Bharat Abhiyan street cleaning Atyeyyadi, Darebail</i>	Cleaning the surroundings	15.02.2023
7.	Walkathon at <i>Mangaluru</i>	-	17.02.2023
8.	Beach cleaning	To keep the beach clean and avoid the pollution	26.03.2024
9.	<i>Swachh Bharat Abhiyan</i>	Cleaning the surroundings	01.03.2023-16.03.2023

*Table 4: Details of the environmental initiatives undertaken by Institute*

***The study suggests increasing the initiatives and its documentation.***

## 5.2 Waste Audit

Waste is an inevitable part of our lives. Over the years the awareness about waste management techniques has given a rise to rethink how the waste can be avoided being sent to the landfills.

The audit provides an approximation of the types of waste generated, location of waste collections, disposal techniques used, waste segregation methodologies adopted, and waste management strategies that are implemented in addition to the newer ways that can be adopted aiming to make the premise clean and sustainable.

### 5.2.1 Waste produced

S. No.	Type	Current practice	Proposed practice
1	Solid waste (Toilets)	Let into storm water drain	<b><i>Introduce a biogas plant that if functional and utilised</i></b>
2	Organic waste (Regular)	Given to the Mangalore city corporation waste collection authority	<b><i>Introduce a compost pit</i></b>
3	Liquid waste (Toilets, wash basins)	Sewage treatment plant is available	Continue with the practice
4	Chemical waste from laboratories	Diluted and disposed	<b><i>Neutralize the liquid waste before letting into storm water drains or soak pit</i></b>
5	Toxic waste from laboratories		<b><i>Dig up a pit 20' away from Institute building to dispose toxic chemicals if any</i></b>
6	E-waste	Information is not provided	<b><i>Tie-up with eco-reco; thereco for recycling</i></b>
7	Plastic waste		<b><i>Undertake eco-walls project and other practices</i></b>
8	Bio-waste (Sanitary)		<b><i>Introduce sani bins in all female washrooms and common rooms</i></b>

**Table 5: Waste management system by the Institute**

## 5.3 Water Audit

Water is one of the basic needs. Pure drinking water is a resource that needs to be preserved efficiently. A water audit helps to identify the sources of water consumption, and the water requirement by the premises is met by these sources. The effective usage of water without any wastage should be a mandatory practice. Understanding the techniques as per site context to increase water conservation in terms of awareness and practice can be identified and executed as part of this exercise.

### 5.3.1 Water availability and consumption

#### 5.3.1.1 Source of Primary water supply

The Institute requires water from the Local Municipality for drinking water purposes. The documentation below related to water tanks in the premises.

S. No	Type	Capacity (litres)	Numbers
1	Underground	1,20,000	2
2	Overhead	60,000	8
3	Fire tank	60,000	6

*Table 6: Water tanks in the premises*



*Plate 5: Drinking water facility in the premises*

***The study suggests that the space requires of tanks can be documented with mention of size, capacity usage, Institute name, colour coding and last maintenance date mentioned on each facility.***

### 5.3.1.2 Source of Secondary water supply

The Institute uses the following sources of water supply for secondary usages such as watering plants, kitchen, toilets, and wash basins and other spaces. There are two wells.

### 5.3.1.3 Source of Tertiary water supply

The tertiary source of water is the source of water harvesting, the pit is under process for roof water harvesting additionally owing to the site context ground water recharge is under process.



*Plate 6: Under process rain water bunds in the premises*

### 5.3.1.4 Source of Reusing waste water

This initiative is practiced through a dedicated centre that is well maintained.



*Plate 7: STP in the premises*

## 5.4 Health and Hygiene Audit

The hygiene is a part and parcel of our daily life. It is extremely essential to keep the surroundings clean in the same manner as we would want our houses to be. Educational Institutes have a bigger role to play in order to affect the young minds in the positive manner through better hygienic practices.

**The overall impression was found to be good with clean areas and no dour issues experienced anywhere within the premises.**

## 6. Investigation

The following results are based on the investigation carried out during the site visit.

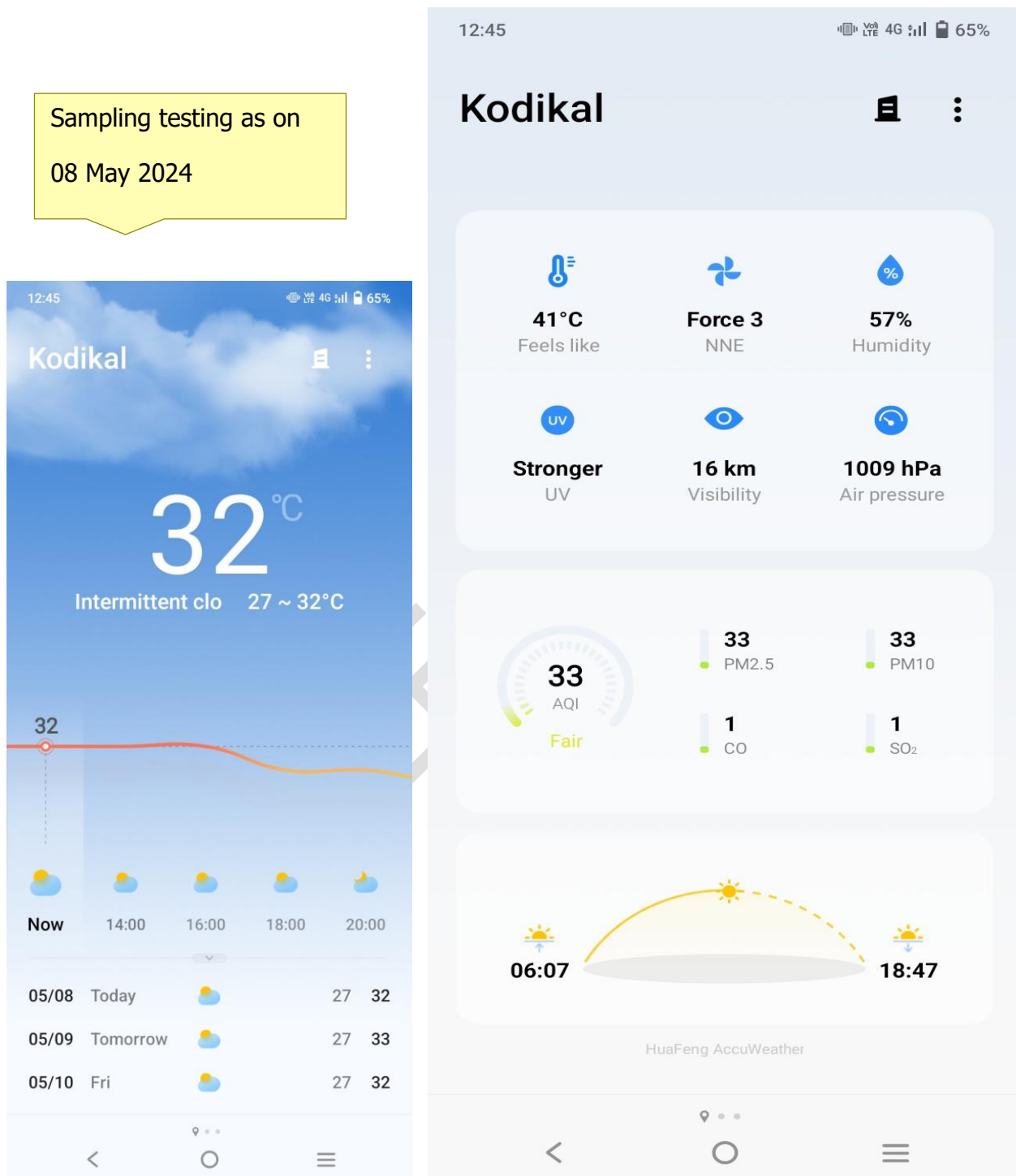


Figure 1: Energy and environmental parameters investigation study

## 7. Suggestion

The suggestion (inference) would act as a 'PLAN OF ACTION' to implement all the suggestions in a detailed manner.

### ➔ Phase 1

- Duration: One year from the date of Report submission – Shared currently
- These are first hand suggestions
- They are easy and quick to implement
- They involve close very less or almost no expenses
- They can serve as a foundation for the entire plan of action

### Section 1 – Green practices audit

#### ➔ Environmental awareness

- There can be various slogans in local and national language on the compound wall giving the message of saving the environment through the joint efforts of the students and staff thereby making the student socially and environmentally responsible citizens.

#### ➔ Government initiatives

- Undertake initiatives such as Swachh Bharat Abhiyan, cleanliness drives in the Institute and surrounding villages also activities such as the capacity building of locals in surrounding villages by Institute students.

#### ➔ Increase the green awareness practice

- This should be in terms of the physical and virtual events, which will be beneficial for all stakeholders in the shared premises. (Basically the frequency of the lectures should be increased)

#### ➔ Mandatory programs should be conducted on following days

- January
  - i. Wd. Braille Day
- February
  - i. Wd. Wetland day

- ii. Wd. Pulses day
- iii. Intd. Polar Bear Day
- iv. NI. Science day

- March

- i. Wd. Wildlife day
- ii. Intd. Action for Rivers
- iii. Global Recycling Day
- iv. Wd. Sparrow day
- v. World forest day/ Intl. day of happiness
- vi. Wd. Water day
- vii. Wd. Meteorological & resources day

- April

- i. Intd. Mine awareness day
- ii. World health day
- iii. Wd Atmosphere Day
- iv. Intd. Earth day
- v. Intd girl in ict/ Wd. Safety, health

- May

- i. Wd Migratory Bird Day
- ii. Intd. Of plant health
- iii. Wd. Bee day
- iv. Intd. Biological diversity
- v. Wd. No tobacco day

- June

- i. Wd. Bicycle day
- ii. Wd. Env't day
- iii. World Oceans Day
- iv. Global Wind Day
- v. Wd. Combat drought
- vi. Sustn. Gastronomy day
- vii. Intd. Of the tropics

- July

- i. Intd. Of cooperatives & World Day Free of Plastic Bags
- ii. Soil conservation
- iii. Wd. Population day

- iv. Mangrove Ecosystem
- August
  - i. Intd. Indigenous day
- September
  - i. Intd. Clean blue sky
  - ii. Intd. Literacy/ Clean-up Day
  - iii. World ozone day
  - iv. Intd. Of peace/ Zero Emission Day
  - v. Intd. Aware food loss
- October
  - i. Wd. Nature day
  - ii. Wd. Habitat day
  - iii. Wd. Wildlife day
  - iv. Wd. Cotton day
  - v. Wd. Migratory bird
  - vi. Intd. Rural women
  - vii. Wd. Food day
  - viii. Climate Action
  - ix. Wd. Cities day
- November
  - i. Wd. Tsunami awareness
  - ii. NI. Birds day
  - iii. Wd. Energy/ Diabetes
  - iv. Wd. Toilet day
- December
  - i. Intd. Person with disability day
  - ii. Wd. Soil day

Note:

- ➔ Wd. Stands for World
- ➔ Intd. Stands for International Day

## Section 2 - Waste audit

### ➔ Awareness

- Educate the housekeeping staff through monthly or quarterly programs related to waste management
- Generate awareness among student and staff stakeholders about products that generate waste through display boards about 'Do not litter' with messages about waste management, its importance and process

### ➔ Measures towards waste management

- Check cutlery practice in canteen area to inculcate healthy habits
  - i. Steel/ paper/ *bagasses* (sugarcane waste) plates for food
  - ii. Paper cups/ *Kulhad* or mud containers for tea
  - iii. Food served on leaf and further used for composting
  - iv. Spoons or straws made of disposable or edible material
  - v. Stakeholders can be guided to bring their own tiffin's for material management
  - vi. Possibilities of waste paper reused including newspaper for cutlery replacement can be explored
- Waste management for every type of waste
  - i. Increase the manpower for campus management
  - ii. Avoid any kind of waste burning as it is hazardous
  - iii. Green organic waste – Dust, dry leaves, twigs, branches – Converted into organic compost/ bio fertilizer
  - iv. Brown organic waste – Non-vegetarian food waste along with green organic waste converted into vermin compost
  - v. Scrap materials – Generated through furniture or old products should be recycled 100% through workshops for stakeholders
  - vi. Go paperless – Use online medium to transfer notes and all information which save paper waste

### ➔ Regular checks

- Food wastage - Check the quantity of food wastage in canteen/ hostel mess and device a plan of action with the staff accordingly
- Dustbins overflow – Location of the dustbins, whether they are over flowing, whether the waste is dumped anywhere within or in backyard of premises – Take a check and collect the waste appropriately

### ➔ Facilities

- One dry small dustbin of each class must be installed
- One dry big dustbin has to be installed in every 10-20 meters of walking area in outdoor spaces
- Install twin litter dustbins on every floor, outdoors specifically canteen - Provision of coloured specific dustbins for different waste, instruction boards at multiple locations 'OR' Blue dustbin for degradable or red dustbin for household waste or green dustbin for recyclable
- Install Sani bins with display of 'Sanitary pads icon' in washrooms of every department and toilets

DETAILED

## Section 3 - Water audit

### ➔ Awareness

- Remind every stakeholder about water conservation/ avoid water wastage by displaying board at every wash room, laboratories, outdoor ground and canteen areas
- Literate employees about water conservation and educate the staff members about the measures and action that can be taken

### ➔ Measures towards water conservation

- Put a container below the outdoor unit pipe of every air conditioner and reuse the same for secondary purposes such as washing cars, cleaning campus outdoor areas etc. avoid using the same for plantation.
  - i. Maintain a record of the nos. of containers and water recycled on a daily basis, further prepare a monthly or quarterly report about the same

### ➔ Regular checks

- Check taps/ faucets of toilets, wash basins, laboratories and outdoor areas for non-working conditions and leakages on a daily basis after 5 pm or once Institute's working hours are over
- If there is hostel facility there should be a regular check once students go to the Institute for any open taps or any type of water wastage; additionally replace all showers with bucket and tap system within hostel premises
- Lock the outdoor taps when they are not in use and check pipelines for damage to avoid any non-maintenance
- Use buckets for floor cleaning to save water and recycle the waste water
- Any kind of water wastage in any area indoor/ outdoor in every department of the Institute and report about the same to authorities
- Cover any open drain/ open water area (except farm/ water pond) that can be prone to become a mosquito breeding spot

## Section 4 - Health and Hygiene Audit

### ➔ Awareness

- Prepare specific instructions for cleaning and sanitizing and display the instructions all over premises
- Display signages/ posters about 'Do not spit' and 'Keep surrounding clean' No smoking' and 'Healthy premises' for healthy habits
- Undertake every Saturday 'Campus Cleanliness program' once in a week by the students and staff members

### ➔ Neat and clean premises practices

- Daily one times cleaning of all floors passage areas through sweeping dusting in indoor areas collection of dry fallen leaves and access ways; watering of plants in outdoor areas
- Daily three times cleaning, disinfecting washroom areas and check to avoid any garbage burning all around campus
- Weekly deep cleaning of building spaces including individual areas, open grounds and grass cutting

### ➔ Stakeholder intervention

- Practice pest control programs with through external stakeholders such that 'Once in every 15 days for Library' whereas 'Once in a month for outdoor areas such as open drains, mosquito breeding spots etc.' and 'Once in every six months or annually for entire campus'

### ➔ Hygiene Facilities - Availability of Sanitizing Equipment

- Water dispenser (Non-mechanic/ electric), hand wash on every floor
- There should be facilities such as potpourri, camphor tablets in the toilet to avoid smell and health related issues in toilet areas
- Install sanitary vending machine or make the sanitary pads available through a female representative, the information about the same should be displayed in foyer areas
- Green carpets could be placed outside drinking water and toilet blocks. This will add to hygiene areas and keep the water spillage under control.

## 8. Compilation

The study is based on the data collected, analyzed, rechecked, and confirmed through multiple modes. For the quality study, some standards/ notes have been referred to. These are listed and noted below. However, no direct references have been used anywhere. These are used as a base to analyze and study the data collected.

- ➔ Uniform Plumbing Code – India, 2008
- ➔ IGBC Green Existing Buildings – Operation & Maintenance (O&M) Rating system, Pilot version, Abridged Reference Guide, April 2013
- ➔ IGBC Green Landscape Rating system, March 2013
- ➔ BOMA Canada Waste Auditing Guide, Best Environmental Standards, BOMA BEST – Canada

