



# Green Audit CONSULTATION REPORT



# SHIVAJIRAO KADAM INSTITUTE OF TECHNOLOGY & MANAGEMENT

Near Ralamandal Sanctuary, Tillore Khurd, Indore (M.P.)

#### PREPARED BY

### EMPIRICAL EXERGY PRIVATE LIMITED

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# **ACKNOWLEDGEMENT**

Empirical Exergy Private Limited (EEPL), Indore takes this opportunity to appreciate & thank the management of Shivajirao Kadam Institute of Technology & Management Near Ralamandal Sanctuary, Tillore Khurd, Indore (M.P.) for giving us an opportunity to conduct green audit for the institute.

We are indeed touched by the helpful attitude and co-operation of all faculties and technical staff, who rendered their valuable assistance and co-operation the course of study.



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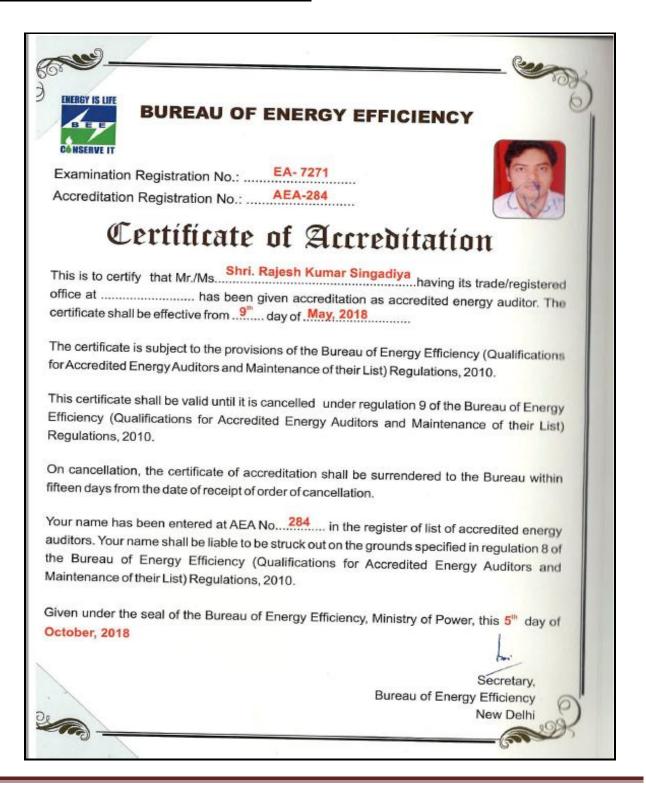
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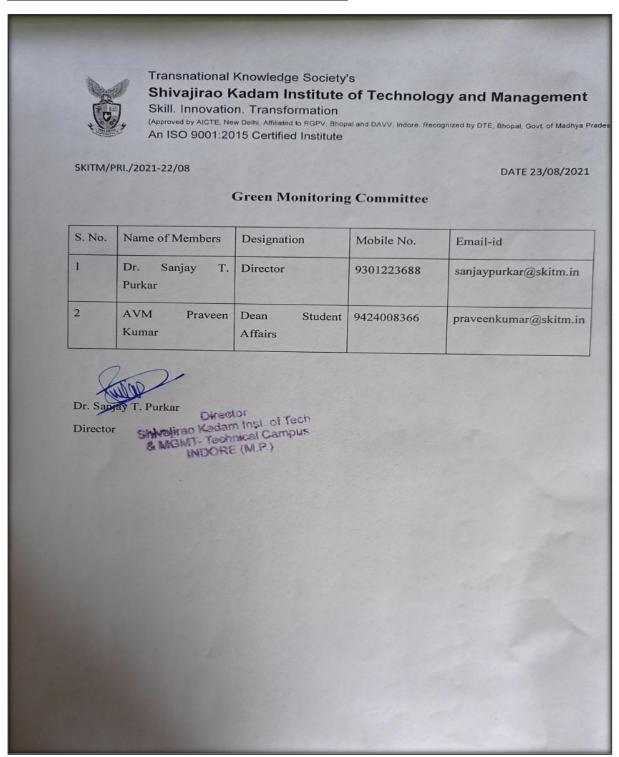
## **Certificate of Accreditation**







# **Green Monitoring Committee**







# **Audit Team**

The study team constituted of the following senior technical executives from **Empirical Exergy Private Limited**,

- **♣ Mr. Rakesh Pathak**, [Director & Electrical Expert]
- **♣ Mr. Rajesh Kumar Singadiya** [Director & Accredited Energy Auditor AEA-0284]
- **Mrs. Laxmi Raikwar Singadiya** [Energy & Chemical Engineer]
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## **EXECUTIVE SUMMARY**

### **Green Initiative Taken by Institute**

#### **LAMPAIGN OF PLANTATION AND GREEN CAMPUS:**

Institute has around **793** trees in the campus. Its good initiative taken by management for green campus under the campaign of plantation, **It's APPRECIABLE.** 

### **RECOMMENDATION: -**

#### **SOLID WASTE MANAGEMENT:**

- The basic principle of good waste management practice is based on the concept of 3R namely Reduce, Recycle, and Reuse. All the degradable and non-degradable waste material are collected and processed in environmentally friendly way in the institute campus.
- **Biodegradable and non-biodegradable:** Waste materials are collected with help of different coloured single dustbin system in the campus.

### QR CODE SYSTEM ON TREE

While the world seems to be going digital, people lack of time to read books and process the information they contain. Hence, Institute can provide QR codes on the trees for its information and to exploit the rapidly growing platform for a unique purpose.

#### **AIR MONITORING SYSTEM: -**

Installation of "Cloud based (IoT based) Air Quality monitoring system in the Campus" tomonitor air quality index for institute campus





# CHAPTER-1 INTRODUCTION

### 1.1 About Institute

Shivajirao Kadam Institute of Technology and Management (SKITM) was founded in the year 2019, with its first intake as SKITM in 2020, after taking over the Erstwhile Acropolis Technical Campus. SKITM is under the aegis of Transnational Knowledge Society, which was founded in the year 2008. Under the visionary leadership of renowned academician Prof. Shivajirao Kadam, the institution aims to transform the lives of its students and establish itself as the center of excellence in the state of Madhya Pradesh. The Institute works on three key principles – Skill, Innovate and Transform. Our unique methodology distinguishes us from the rest of the institutions. We are highly focused on practical aspects of education, we aim to make our students ready to take up the real world challenges which the industry poses at them. We currently have 4 schools which offer B.TECH (CSE, MECH, CIVIL, EC), B.COM, BBA, Integrated BBA-MBA, B.Pharma, MBA as well as Diploma in Mechanical, Civil and Pharmacy. With the unrivalled leadership and the guidance of our Mentors, SKITM is changing the design and nature of education. SKITM will be recognized for the impact its teachings will have on its students and the community at large. Our Extensive Training Sessions, Unique Teaching Methodology, Strong Collaborations, Impactful Certifications and Partnerships make us the up and coming Institute in Central India.

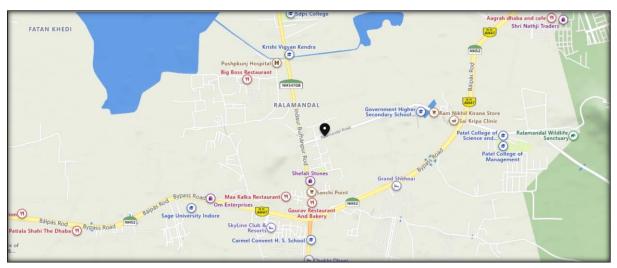


Figure - 1.1 Satellite image of SKITS Institute (Source – Google)





### Vision

Holistic development of the learner through excellence in education, innovation & research.

#### Mission

- 1. To create competitive and technically empowered environment which enable students to develop and discover their potential and become competent to address industrial, societal and global challenges.
- 2. To achieve academic excellence in application-oriented research, novelty and creativity leading to emergence of technocrats, leaders, innovators and renowned entrepreneurs.
- 3. To become a top school in country where students are raised with Holistic learning for inculcating core values of professionalism, gender equality, transparency and ethics.
- 4. To establish partnership with globally recognized institutions and organizations to foster students with industrial exposure through extensive hands-on training.
- 5. To ensure overall nurturing and all-round personality development of students by continues monitoring and guidance.





### 1.2 About Green Auditing

Eco campus is a concept implemented in many educational institutions, all over the world to make them sustainable because of their mass resource utilization and waste discharge into the environment.

Green audit means to identify opportunities for sustainable development practices, enhance environmental quality, improve health, hygiene, and safety, reduce liabilities achieve values of virtue. A green audit also provides a basis for calculating the economic benefits of resource conservation projects by establishing the current rates of resource use and their associated costs.

Green auditing of "Shivajirao Kadam Institute of Technology & Management" enables assessment of the lifestyle, action, and its impact on the environment. This green audit was mainly focused on greening indicators like utilization of green energy (solar energy) and optimum use of secondary energy sources (petrol and diesel) in the Institute campus, vegetation, carbon footprint of the campus, etc. Green auditing aims to help the institution to apply sustainable development practices and to set examples before the community and young learners.

### 1.3 Objectives of Green Auditing

The general objective of green audit is to prepare a baseline report on "Green campus" and alternative energy sources (solar energy), measures to mitigate resource wastage and improve sustainable practices.

### The specific objectives

- ♣ To inculcate values of sustainable development practices through green audit mechanism.
- ♣ Providing a database for corrective actions and future plans.
- To identify the gap areas and suggest recommendations to improve the green campus status of the institute.





## Chapter - 2

## **Green Campus and Sustainable Development**

### 2.1 Green Audit

In the survey, focus has been given on assessment of present status of plants and tree in the institute campus and efforts made by the institute authorities for nature conservation. Campus is in the vicinity of approximately more than 793 trees/ medicinal herbs/ ornamental plants. The detail is given below:



Figure 2.1: Green Campus





### 2.2 List of plants in institute campus.

Sr. No.	Name of Tree	Qty.
1	Gulmohar	100
2	Champa	100
3	Termillia	50
4	Neem	150
5	Ashoka	10
6	Kaner	100
7	Aanwala	57
8	Imli	5
9	Peepal	2
10	Bargad	1
11	Mango	35
12	Bottle Pam	13
13	Amca Pam	10
14	Sagwan	110
15	Pump 15	
16	Gulab 35	
	Total	793

Institute has 793 **trees** in the campus. This is good initiative taken by management for green campus under the campaign of plantation. **It's APPRECIABLE.** 





### 2.3 Green Campus Photograph









# Chapter-03 Carbon Foot print

### 3.1 About carbon foot print.

Climate change is one of the biggest challenges facing by world, nations, governments, institutions, business and mankind today.

Carbon footprint is a measure of the impact of your activities have on the amount of carbon dioxide (CO2) produced through the burning of fossil fuels and is expressed as a weight of CO2 emissions produced in tones.

We focus on consumption in each of our five major categories: housing, travel, food, products and services. In addition to these we also estimate the share of national emissions over which we have little control, government purchases and capital investment.

For simplicity and clarity all our calculations follow one basic method. We multiply a use input by an emissions factor to calculate each footprint. All use inputs are per individual and include things like fuel use, distance, calorie consumption and expenditure. Working out your inputs is a matter of estimating them from your home, travel, diet and spending behaviour.

Although working out inputs can take some investigation on part the much more challenging aspect of carbon calculations is estimating the appropriate emissions factor to use in calculation. Where possible you want this emissions factor to account for as much of the relevant life cycle as possible.

### 3.2 Methodology and Scope

The carbon footprint gives a general overview of the institute greenhouse gas emissions, converted into CO2 - equivalents and it is based on reported data from internal and external systems. The purposes of the carbon indicators are to measure the carbon intensity per unit of product, in addition to showing environmental transparency towards external stakeholders. The carbon footprint reporting approach undertaken in this study follows the guidelines and principles set out in the "Greenhouse Gas Protocol Corporate Accounting and Reporting Standard" (hereafter referred to as the GHG Protocol) developed by the Greenhouse Gas Protocol Initiative and international standard for the quantification and reporting of greenhouse





gas emissions - ISO 14064. This is the most widely used and accepted methodology for conducting corporate carbon footprints. The study has assessed carbon emissions from the institute campus. This involves accounting for, and reporting on, the GHG emissions from all those activities for which the company is directly responsible. The items quantified in this study are as classified under the ISO 14064 standards: The report calculates the greenhouse gas emissions from the institute. This includes electricity, as well as emission associated with diesel consumption in the Institute vehicle. The emission associated with air travel, waste generation, administration, and marketing related activities has been excluded from the current study. Emissions from business activities are generally classified as scope 1, 2 or 3 areas classified under the - ISO 14064 standards.

### 3.3 Carbon emission from electricity

Direct emissions factors are widely published and show the amount of emissions produced by power stations in order to produce an average kilowatt-hour within that grid region

Unlike with other energy sources the carbon intensity of electricity varies greatly depending on how it is produced and transmitted. For most of us, the electricity we use comes from the grid and is produced from a wide variety of sources. Although working out the carbon intensity of this mix is difficult, most of the work is generally done for us.

Electricity used in the site is the significant contributors towards HGs emission from the unit. Electricity used onsite is the most direct, and typically the most significant, a contributor to a unit's carbon footprint. Thus, using an average fuel mix of generating electricity, carbon dioxide intensity of electricity for national grid is assumed to be 0.9613 KgCO2/Kwh.

(Reference: Central Electricity Authority (CEA) Baseline Carbon Dioxide Emission data <a href="http://cea.nic.in/reports/others/thermal/tpece/cdm\_co2/database\_11.zip">http://cea.nic.in/reports/others/thermal/tpece/cdm\_co2/database\_11.zip</a>). Electricity is purchased from the grid

Table 3.1 Electricity purchased from the grid and Emissions from the electricity Import

Sr. no	Year	Total unit Consumption by AVVNL	Unit	Emission Factor kg CO <sup>2</sup> e/kWh	Emission ton CO <sup>2</sup> e/year	
1	2021-22	1,52,445	kWh	0.9613	146.54	
	Total	1,52,445		Total	146.54	

Observation :-

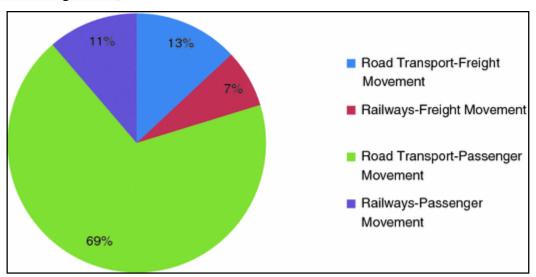
Total Co<sub>2</sub> Emission by indirectly from electricity is 146.54 Ton CO<sub>2</sub>e/year in 2021-22.





### 3.4 Carbon emission from vehicles.

In India, it is the third most CO<sub>2</sub> emitting sector, and within the transport sector, roadtransport contributed more than 90% of total CO<sub>2</sub> emissions (IEA, 2020; Ministry of Environment Forest and Climate Change, 2018)



Transportation (29 percent of 2019 greenhouse gas emissions) – The transportation sector generates the largest share of greenhouse gas emissions. Greenhouse gas emissions from transportation primarily come from burning fossil fuels for our cars, trucks, ships, trains, and planes.

We have also considered the total GHGs emission done by transportation facilities available on the campus like Cars, ambulances, Buses, etc. We consider the different types of vehicles which are operated on petrol and diesel fuels

The energy team has analyzed the following vehicle movement for Campus.





### Calculation of Carbon footprint analysis: -

As per discussion by the concerned department in the Institute and data provided by Management.

The following details are given in the table: -

Month & Year	Diseal QTY	Distance Traveling per Month (KM)	Petrol Qty	Distance Traveling per Month (KM)	
Jul-21	4804.91	33634.37	216.1022	3241.53	
Aug-21	1630.94	11416.58	381.55	5723.25	
Sep-21	2101.33	14709.312	208.72	3130.8	
Oct-21	3766.43	26365.01	256.11	3841.65	
Nov-21	4916.6	34416.2	150.28	2254.2	
Dec-21	7945.54	55618.78	275.74	4136.1	
Jan-22	3695.69	25869.83	275.51	4132.65	
Feb-22	9181.24	64268.68	93.77	1406.55	
Mar-22	4959.53	34716.71	34.26	513.9	
Apr-22	4802.08	33614.56	77.19	1157.85	
May-22	5763.57	40344.64	241.12	3616.8	
Jun-22	3797.55	26582.85	260.65	3909.75	
Jul-22	3501.74	24512.18	363.72	5455.8	

- ❖ CO₂ Emissions from a gallon of gasoline: 8,887 grams CO₂/ gallon
- ❖ CO₂ Emissions from a gallon of diesel: 10,180 grams CO₂/ gallon

- ❖ CO₂ Emissions from a Littre of gasoline: 2347.95 grams CO₂/ Liter.
- ❖ CO<sub>2</sub> Emissions from a Littre of diesel: 2689.56 grams CO<sub>2</sub>/ liter.

=  $\frac{2689.56}{7}$ X 426069 = 163705 gram or 163.705 Kg/day





When Vehicle traveling in 320 Days in Year = 163.70 x 320

= 52384 Kg/year or 52.384 ton/year

CO<sub>2</sub> Per litre

Total CO<sub>2</sub> Emissions = ----- X Distance (in km)

Average Mileage (Km/Litre)

= <u>2347.95</u> X **42520** = **665565gram** or **665.56** Kg/day

When Vehicle traveling in 320 Days in Year = 665.56x 320

= 212979 Kg/year or 212.97 ton/year

### 3.5 Biomass Calculation and CO<sup>2</sup> Sequestration of the Trees: -

1. Estimation of above ground biomass (AGB)

$$K = 34.4703 - 8.0671D + 0.6589 D^2$$

Where = K is above ground biomass.

D is Breast height diameter in (cm)

2. Estimation of below ground biomass (BGD)

$$BGB = AGB \times 0.15$$

3. Total Biomass (TB)

$$TB = AGB + BGB$$

4. Calculation of carbon dioxide Weight sequestered in the tree in kg.

$$C = W \times 0.50$$

5. Calculate the weight of Co2 Sequestered in the tree per year in kg.

$$Co2 = C \times 3.666$$





### **3.6 Biomass Calculation of Trees**

Sr.	Tree Name	Botanical and Family Name	Average Diameter in CM (5 to 50)	AGB	BGB	Total	Carbon Storage	Amount of Co2 Sequestered	Total	Total Amount of Co2 Sequestered	Co2 Sequestered amount (Ton/year)
1	Gulmohar	Delonix regia	40	798.0	119.7	917.7	458.9	1682.2	100	168221	2.29
2	Champa	Plumeria alba	20	144.7	21.7	166.4	83.2	305.0	100	30500	0.42
3	Termillia	Terminalia chebula	20	144.7	21.7	166.4	83.2	305.0	50	15250	0.21
4	Neem	Azadirachta indcia	45	1046.2	156.9	1203.2	601.6	2205.4	150	330809	4.51
5	Ashoka	Saraca Asoca	50	1328.4	199.3	1527.6	763.8	2800.1	10	28001	0.38
6	Kaner	Nerium indicum	15	66.2	9.9	76.2	38.1	139.6	100	13958	0.19
7	Aanwala	Phyllanthus Emblica	25	257.1	38.6	295.7	147.8	542.0	57	30892	0.42
8	Imli	Tamarindus indica	35	583.8	87.6	671.3	335.7	1230.6	5	6153	0.08
9	Peepal	Ficus religiosa	50	1328.4	199.3	1527.6	763.8	2800.1	2	5600	0.08
10	Bargad	Ficus benghalensis	78	3535.7	530.4	4066.0	2033.0	7453.0	1	7453	0.10
11	Mango	Mangifera indica	52	1450.7	217.6	1668.3	834.2	3058.1	35	107032	1.46
12	Bottle Pam	Hyophorbe lagenicaulis	84	4147.2	622.1	4769.2	2384.6	8742.0	13	113646	1.55
13	Amca Pam	Achyranthes aspera	86	4361.9	654.3	5016.1	2508.1	9194.6	10	91946	1.25
14	Sagwan	Tectona grandis	50	1328.4	199.3	1527.6	763.8	2800.1	110	308015	4.20
15	Pump	Hyophorbe lagenicaulis	75	3248.3	487.2	3735.5	1867.7	6847.2	15	102707	1.40
16	Gulab	Rosa damascena	10	21.7	3.3	24.9	12.5	45.7	35	1600	0.02
	Total Co2 Emission nuterlize by the trees							18.57			

Institute has 793 trees in the campus. This is good initiative taken by management for green campus under the campaign of plantation. It's APPRECIABLE. There are total CO <sup>2</sup> Emission neutralize by the trees 18.57Ton/year



By the campus

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**Total Carbon Footprint generated** = Carbon footprint by electricity

Carbon footprint by Vehicles

+
Carbon footprint by DG Sets.
Carbon Neutralize by tree

Carbon Neutralize by solar

#### **Total Carbon Foot**

print by campus: 146.54 + 52.384+212.97 - 18.57 = 393.32tons/year

#### Recommendation: -

There are required for more plantation and installation of solar energy to reduce carbon emission share by institute.

#### 3.7 Other Emissions Excluded

This study did not evaluate the carbon sequestration potential of existing plantation activities and emission from the staff commuting, food supply, official flights, paper products, water supply, and waste disposal and recycling due to limited data availability. The current study identifies areas where data monitoring, recording and archiving need to be developed for enlarging the scope of mapping of GHGs emission in the future years. Accordingly, a set of tools and record keeping procedure will be developed for improving the quality of data collection for the next year carbon footprint studi





### CHAPTER- 4 WASTE MANAGEMENT

#### **4.1 About Waste:**

Human activities create waste, and it is the way these wastes are handled, stored, collected and disposed of, which can pose risks to the environment and to public health waste management is important for an eco-friendly campus. In institute different types of wastes are generated, its collection and management are very challenging.

Solid waste can be divided into three categories: bio-degradable, non-biodegradable and hazardous waste. A bio-degradable waste includes food wastes, canteen waste, wastes from toilets etc. Non-biodegradable wastes include what is usually thrown away in homes and schools such as plastic, tins and glass bottles etc. Hazardous waste is waste that is likely to be a threat to health or the environment like cleaning chemicals, acids and petrol.

Unscientific management of these wastes such as dumping in pits or burning them may cause harmful discharge of contaminants into soil and water supplies, and produce greenhouse gases contributing to global climate change respectively. Special attention should be given to the handling and management of hazardous waste generated in the institute. Bio-degradable waste can be effectively utilized for energy generation purposes through anaerobic digestion or can be converted to fertilizer by composting technology. Non-biodegradable waste can be utilized through recycling and reuse. Thus, the minimization of solid waste is essential to a sustainable institute. The auditor diagnoses the prevailing waste disposal policies and suggests the best way to combat the problems.

Table 4.1 Different types of waste generated in the Institute Campus.

Sr.No.	Types of Waste	Particulars
1	Solid wastes	Damaged furniture, paper waste, paper plates, food wastes etc.
2	Plastic waste	Pen, Refill, Plastic water bottles and other plastic containers.
3	E-Waste	Computers, electrical and electronic parts etc.
4	Glass waste	Broken glass wares from the labs etc.
5	Chemical wastes	Laboratory waste etc.
6	Bio-medical Waste	Sanitary Napkin etc.





### 4.2 Waste management Practices adopted by the institute

Institute has a different type of waste generated like paper, Plastic, dust and wet waste. The institute provided small dustbin to every classroom, office, laboratories, staff room, and collect the waste material at the end of the day. The waste (Especially dry material) is collected in a big dustbin which are provided at every floor and the next day collected municipal corporation for further processing.





Figure 4.1 :- Dust Bins in institute





### **Recommendation:**

Adopted 5 bin Waste collection system for collect different type of waste generated in institute premises.



Figure 4.2 :- 5 Dust Bin waste collection System

### **4.3 Waste Collection Points:**

Audit team also visited various department in old and new building of the institute to find out waste generation area and waste collection points for further improvement. Details are given in the table.

Table 4.2 Detailed of Waste collection Dust bin system

	Engg. Block							
Sr. No.	Location	Dustbin						
1	Ground floor 4							
2	First floor 2							
3	Second floor 3							
4	Third floor	2						
	Pharmacy Block							
Sr. No.	Location	Dustbin						
1	Ground floor	2						
2	First floor 2							
3	3 Canteen 3							
	Total	18						

**Observation**: Total 18 no. of dustbin in the institute.





# CHAPTER- 5 RECOMMENDATIONS AND SUGGESTIONS

### **5.1 QR Code System and Biodiversity:**

While the world seems to be going digital, people lack the time to read books and process the information they contain. Hence, Institute can be provided QR codes on the trees for its information and to exploit the rapidly growing platform for a unique purpose.



Figure 5.1:- QR Code System for plants

These codes can give students all the information they need to know about the tree — from its scientific name to its medicinal value. They only need to put their smart-phones to use. QR codes to them, making it easier for everybody to learn about a plant or a tree at the tip of their fingers," If any app generating a QR code, which is available for free on the online stores, can be used to avail the information of the trees.

### **Lesson** Eco-restoration programmes

• Frame long-term eco-restoration programmes for replacing exotic Acacia plantations with indigenous trees and need of the hour is to frame a holistic campus development plan.



### Shivajirao Kadam Institute of Technology & Management Tillore Khurd, Indore (M.P.)



### **5.2 Other Suggestions**

Some of the very important suggestions are: -

- ♣ Adopt the proposed Environmentally Responsible Purchasing Policy, and work towards creating and implementing a strategy to reduce the environmental impact of its purchasing decisions.
- **♣** Increase recycling education on campus.
- ♣ Increase Awareness of Environmentally Sustainable Development in Institute campus.
- ♣ Practice Institutional Ecology- Set an example of environmental responsibility by establishing institutional ecology policies and practices of resource conservation, recycling, waste reduction, and environmentally sound operations.
- ♣ Involve All Stakeholders- Encourage involvement of government, foundations, and industry in supporting interdisciplinary research, education, policy formation, and information exchange in environmentally sustainable development.
- ♣ Collaborate for Interdisciplinary Approaches- To develop interdisciplinary approaches to curricula, research initiatives, operations, and outreach activities that support an environmentally sustainable future.
- ♣ Increase reduces, reuse, and recycle education on campus.
- ♣ Develop a butterfly garden that arouses appreciation towards flora and fauna diversity.
- ♣ Name all the trees and plants (Plant DNA barcodes) with its common name and scientific name.
- ♣ Arrange training programmes on environmental management system and nature conservation.
- ♣ Renovation of cooking system in the canteen to save gas by installation solar water heater system with heat pump.
- ♣ Establish a procurement policy that is energy saving and eco-friendly.



## Shivajirao Kadam Institute of Technology & Management Tillore Khurd, Indore (M.P.)



# **End of The Report Thank you**