Green Audit Report Techno India NJR institute of Technology, Udaipur

1 Introduction

1.1 Green Audit:

Green audit is the method of assessing the environmental impact of an organization, process, project, product etc. Green Audit can be defined as a basic management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organizations, management systems and equipment are performing. The aim of the audit is to facilitate management control on environmental practices and to enable the organization to assess compliance with its policies including meeting regulatory requirement.



Figure 1: Geographical pictures of Techno India NJR Campus

Techno India NJR institute of Technology, Udaipur

1.2 Methodology

The study covered the following area to summarize the present status of environment management in the campus:

i. Pre-audit planning

- Preliminary literature review of concepts and methodologies related to green audit.
- Discussion with the management staff on various systems installed in the campus.
- ❖ Awareness creation and interaction with the staff and student on the concept of green audit.
- ❖ Walk through the entire campus to understand the nature of water use, energy use, air quality system, sound quality and waste management systems in the campus.

ii. Data collection

- ❖ Development of questionnaire format to identify all water/air/sound/energy using fixtures/ equipment and examine water or energy use patterns for individual buildings in the campus.
- ❖ Collection of secondary data from compilation of electricity bills, collecting records of pumps, generators, water quality analysis reports, civil and electrical drawings etc.
- Semi-structured interview with maintenance manager, technicians, plumber and housekeeping staff on current situation and the past trends in water consumption, electricity consumption, waste management, waste generation etc.

iii. Data Processing and analysis

The existing trends and patterns in water usage, energy usage and waste generation and management is analyzed in this step from the data collected from the previous step.

iv. Audit Recommendations and reporting

Based on the understanding from the green audit, recommendations are given to improve the existing environmental performance of the campus and are documented in a report format.

Green Audit Report Techno India NJR institute of Technology, Udaipur Water Quality Assessment & Management: Water quality analysis was conducted by Rahul Engineers Laboratory on following parameters: **₩** ORP ₩ TDS 🖊 рН Conductance Salinity MPN Index ¥ Ions (Sodium, Potassium)

Green Audit Report Techno India NJR institute of Technology, Udaipur

Wing-A			Wing-B			Wing-C V			Wing-D		
Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. o Taps
Pantry	A-103	5	Common Toilet	B-108	12	Chemistry Lab	C-106	17	Toilet- Gents	D-109	8
Toilet- Gents	A-110	6	Drinking water		2	Toilet- Gents	C-107	6	Toilet- Ladies	D-109	8
Toilet- Ladies	A-110	6				Toilet- Ladies	C-107	6			
		Floc	or Total					17+14+2 9	+16= 76		
First Floor											
Wing-A			Wing-B			Wing-C			Wing-D		
Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. o
Guest Room-1	A-209	4	Toilet- Gents	B-208	8	Toilet- Ladies	C-208	12	Toilet- Gents	D-210	8
Guest Room-2	A-210	4	Drinking water		2						
Guest Room-3	A-202	3									
		Floo	or Total					11+10+1	2+8=41		
Second Flo	or										
Wing-A			Wing-B		Wing-C		Wing-D				
Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of
Girls Hostel	A-305	17+3	Drinking water		2						
		Floo	or Total			22					
Mechani	ical Work	shop				Incubation Lab					
Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. o
Workshop	WS01	2	IC Lab	IC-103	4	i-3 Lab	IC-201	4			
		Floo	or Total					2+4+4	l=10		
Section	No. of Taps										
Canteen	8										
Cafeteria	5										
Lawn-1	6										
Lawn-2	6										
Main Gate	3										
		Ī									
Boys	46		_								

Techno India NJR institute of Technology, Udaipur

2.2 Water Storage Profile:

		No of Tanks	Capacity of the Tanks	Total Capacity (Litre)	Remark
	Block-A	2	1000 Litre	2000	
B. G = 1	Block-B	5	1000 Litre	5000	
Main Building	Block-C	2	1000 Litre	2000	
Dullullig		2	3000 Litre	6000	Raw Water
		1	3000 Litre	3000	RO Water Storage
Main		2	1000 Litre	2000	Raw Water
Gate		1	1000 Litre	1000	RO Water Storage
Boys	Water	2	2000 Litre	4000	Raw Water
Hostel	1 1000 Litre	1000 Litre	1000	RO Water Storage	
IC Lab		1	1000 Litre	1000	RO Water Storage
Service	Station	1	1000 Litre	1000	
Total				28,000	

2.3 Bore Well Storage Profile:

SN	Dimension (foot)	Volume (cubic foot)	Total Capacity (Litre)
1	70x16x8	8,960	2,53,718.9

Green Audit Report	
Techno India NJR institute of Technology, Udaipur	
3. Air Quality Assessment & Management:	

Techno India NJR institute of Technology, Udaipur

4. Electricity Consumption & Management:

Sr. No.	Month	Consumption Units (kWh)
1	Jan 2020	15216
2	Feb 2020	13724
3	Mar 2020	10301
4	May 2020	10301
5	June 2020	25620
6	July 2020	22869
7	Aug 2020	26345
8	Sep 2020	22848
9	Oct 2020	24450
10	Nov 2020	15342
11	Dec 2020	9539
12	Jan 2021	11537
Total Power Cor	nsumption in Yearly	208092 kWh
Average Power Co	nsumption in Monthly	17341 kWh

Average power consumption in monthly is 17341 kWh (Units) is collected after deducting the Solar generation which approximately generation capacity in between 5000 to 6000 Units per month.

Techno India NJR institute of Technology, Udaipur

4.1 Graphically Representation of Electricity Distribution:

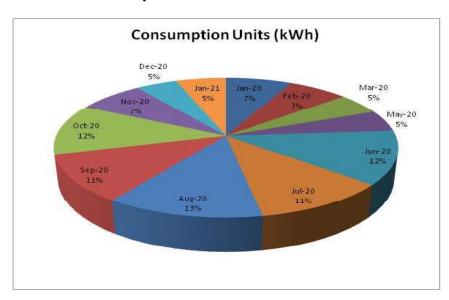


Figure 2: Electricity distribution

Green Audit Report Techno India NJR institute of Technology, Udaipur 5 Sound Pollution Monitoring:	

Techno India NJR institute of Technology, Udaipur

- **6 Waste Management:** This indicator addresses waste production and disposal of different wastes like paper, food, plastic, glass, dust etc. Furthermore, solid waste often includes wasted material resources that could otherwise be channeled into better service through recycling, repair and reuse. Solid waste generation and management is a burning issue.
 - **6.1 Solid Waste Management:** The Campus has adopted the principles of the 'best practicable environmental option' to deliver its waste management services. The Campus applies a 'waste hierarchical approach' to reduce, reuse, recycle, and recover waste products in preference to waste disposal to landfill. Figure 3 shows a schematic diagram of solid waste management of the Campus.

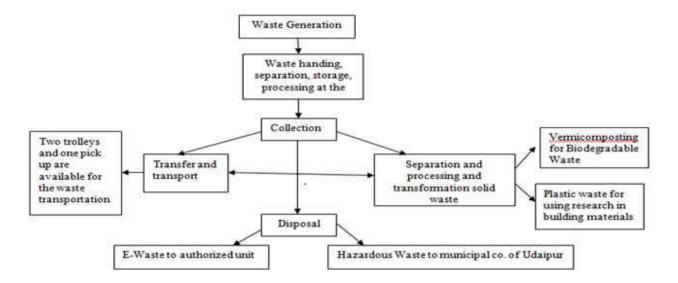


Figure 3: Interrelationships between the functional elements in Solid Waste Management in Campus

- **6.2 Waste Segregation:** Source segregation via separate bins as per the waste. Following color code is used for different types of wastage.
 - ➤ Green Bins: For biodegradable waste
 - ➤ Blue Bins: For plastics waste
 - > Red Bins: Hazardous and Sanitary waste
 - ➤ Black Bins: For E-Waste

Dimensions and 3d views of the collection and processing center on the college campus are shown in Figures 4 and 5.

Techno India NJR institute of Technology, Udaipur

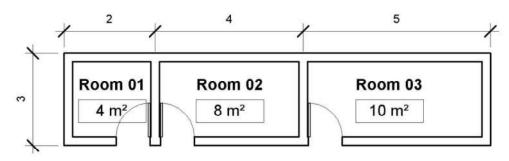


Figure 4: Area and Dimensions of Processing Center (Outer Dimensions in meter)

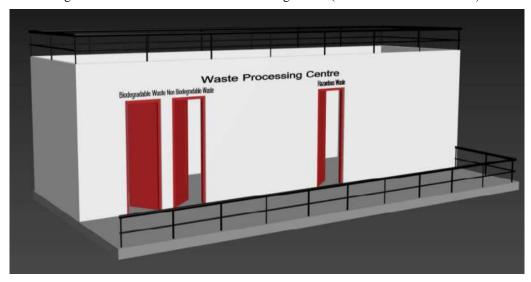


Figure 5: Processing Center for Waste at the Campus

- **6.3 Resources for Waste management:** There are two sets of four colored bins of 120 liter capacity for each location on Campus. One collection center and one processing center are also located on Campus. The location of black colored dustbin is inside the Campus in a particular room. Three sets (60 Liter) of blue and green bins are kept in each wing of each floor. Red bins of 60-liter capacity are kept in each washroom of the Campus.
- **6.4 Liquid Waste Management**: Wastewater management options and technologies can be functionally divided into two segments. Firstly, septic tanks are used for sewage waste water. Secondly, wastewater from bathrooms is treated through coagulants for the separation of soap and other suspended particles, and this treated water is used for gardening.
- **6.5 Biomedical and Radioactive Waste Management:** There is no biomedical and radioactive waste generated in the campus.
- **6.6 Hazardous Chemicals Waste Management:** There are separate red colored bins and room (shown in figure 5) for sanitary and hazardous waste. These types of wastes are disposed on Municipality landfill site outside city.





1. Energy Audit

Collection of experimental data:

All required data is collected by the Department of Electrical Engineering. In the building, in every room, how many fans, tube lights, bulbs, computers, instruments AC, etc. will be measured. According to the survey following data is collected.

Table: Total Load During Jan 2020 to Dec 2020

Department/Office	Fan	LED Tube light	A.C.	Fridge	Computer	Printer	Scanner	Xerox Machine	Projector	LED TV
Director Office	2	6	2	0	1	1	0	0	0	0
Principle Office	4	9	2	0	0	1	0	0	0	0
Chemistry Lab	11	16	0	0	0	0	0	0	0	0
Physics Lab	3	6	0	0	1	0	0	0	0	0
Chairperson Room	1	2	1	0	0	0	0	0	0	0
Account Dept	4	2	1	0	3	1	1	3	0	0
Exam Dept	4	5	0	0	2	1	1	1	0	0
Staff Room	18	30	5	0	25	18	5	0	0	0
Library	8	16	0	0	3	1	1	1	0	0
Classrooms	102	216	0	0	7	0	0	0	8	0
Pantry	1	3	0	1	0	0	0	0	0	0
Seminar Hall	8	16	5	0	1	0	0	0	1	0
Wash room	0	18	0	0	0	0	0	0	0	0
Passage	0	60	0	0	0	0	0	0	0	0
Dept Labs	158	256	20	0	424	0	0	0	8	2
I3 Lab	11	21	4	1	11	3	1	0	1	2
Mechanical Workshop	20	30	0	0	1	0	0	0	0	0
Hostel	30	40	0	0	3	0	0	0	0	0
Canteen	15	16	0	3	0	0	0	0	0	0
Main Entrance	6	16	0	0	0	0	0	0	0	0
Gym	12	15	0	0	0	0	0	0	0	1
Visiting Room	1	2	0	0	0	0	0	0	0	1
Parking Area	6	12	0	0	1	0	0	0	0	1
Total Quantity	425	813	40	5	483	26	9	5	18	7
Avg. Wattage rating of single appliance(W)	60 W	25 W	1.5 / 2.0 Ton	1100 W	180 W	100 W	100 W	300 W	220 W	90 W
Average number on at a time	204	510	20	4	220	20	6	4	14	5
Total Wattage on at a time (W)	12240	12750	34500	4400	39600	2000	600	1200	3080	450
Total maxin	mum Po	wer Rec	uiremen	t of all a	ppliances =		110820	Watts		

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Principle Office	4	9	2	0	0	1	0	0	0	0
Chemistry Lab	11	16	0	0	0	0	0	0	0	0
Physics Lab	3	6	0	0	1	0	0	0	0	0
Chairperson Room	1	2	1	0	0	0	0	0	0	0
Account Dept	4	2	1	0	3	1	1	3	0	0
Exam Dept	4	5	0	0	2	1	1	1	0	0
Staff Room	18	30	5	0	25	18	5	0	0	0
Library	8	16	0	0	3	1	1	1	0	0
Classrooms	102	216	0	0	7	0	0	0	8	0
Pantry	1	3	0	1	0	0	0	0	0	0
Seminar Hall	8	16	5	0	1	0	0	0	1	0
Wash room	0	18	0	0	0	0	0	0	0	0
Passage	0	60	0	0	0	0	0	0	0	0
Dept Labs	158	256	20	0	424	0	0	0	8	2
I3 Lab	11	21	4	1	11	3	1	0	1	2
Mechanical Workshop	20	30	0	0	1	0	0	0	0	0
Hostel	30	40	0	0	3	0	0	0	0	0
Canteen	15	16	0	3	0	0	0	0	0	0
Main Entrance	6	16	0	0	0	0	0	0	0	0
Gym	12	15	0	0	0	0	0	0	0	1
Visiting Room	1	2	0	0	0	0	0	0	0	1
Parking Area	6	12	0	0	1	0	0	0	0	1
Total Quantity	425	813	40	5	483	26	9	5	18	7
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Total Wattage on at a time (W)	12240	12750	34500	4400	39600	2000	600 110820	1200	3080	450
Total maxin	Total maximum Power Requirement of all appliances =							Watts		

- **2. Bore-well motor details**: 3- phase Induction motor of 5 HP, consumes approx. 8 units per day so monthly around 240 units.
- 3. Power Consumption of Electricity Board

Table: Power Consumption During Jan 2020 to Jan 2021

Sr. No.	Month	Consumption Units (kWh)
1	Jan 2020	15216
2	Feb 2020	13724
3	Mar 2020	10301
4	May 2020	10301
5	June 2020	25620
6	July 2020	22869
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10	Nov 2020	15342
11	Dec 2020	9539
12	Jan 2021	11537
Total Pov	wer Consumption in Yearly	208092 kWh
Average Po	wer Consumption in Monthly	17341 kWh

Table: Power Consumption During Jan 2021 to Dec 2021

Sr. No.	Month	Consumption Units (kWh)
1	Jan-21	11537
2	Feb-21	15608
3	Mar-21	14405
4	Apr-21	18420
5	May-21	14900
6	Jun-21	27528
7	Jul-21	13638
8	Aug-21	14361
9	Sep-21	11927
10	Oct-21	18854
11	Nov-21	15716
12	Dec-21	11882
Total Po	ower Consumption in Yearly	188776 kWh
Average P	ower Consumption in Monthly	15731 kWh

^{4.} Average power consumption in monthly is 16038kWh (Units) is collected after deducting the Solar generation which approximately generation capacity in between 3000 to 4000 Units per month.

5. Graphically Representation of Electricity Distribution:

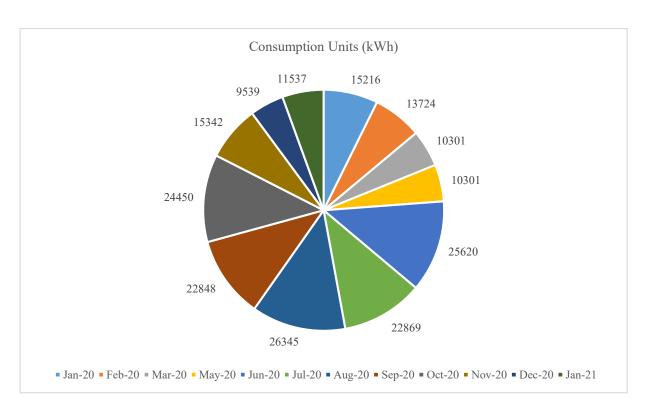


Fig: Electricity distribution from Jan 2020 to Dec 2021

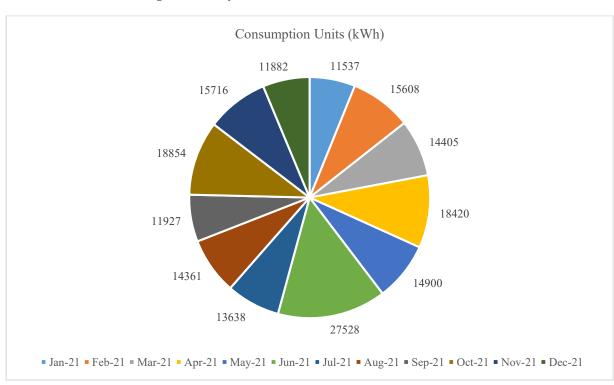


Fig: Electricity distribution from Jan 2021 to Dec 2021

6. Total requirement of electricity, generation of electricity using renewable energy sources (Jan 2021-Dec 2021):

Power requirement by renewable energy sources	Total power requirement	Renewable energy source	Renewable energy generated and used	
15731 kWh/Month	200 kWh/day	50 kW Solar on the grid	3000 to 4000 kWh/Month	

7. Renewable energy generation details:

50 kW capacity Solar on the grid power plant. Total per day generation is around 200 Units (kWh)







Fig: Jan 2021 month per day Solar generation graph

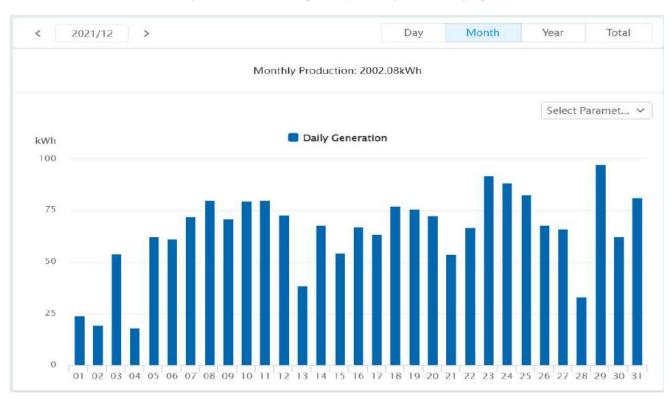


Fig: Dec 2021 month per day Solar generation graph

Plant Profile

Plant ID 883005 Name Techno NJR Location Plot-SPL-T, Bhamashah (RIICO) Industrial Area, Kaladwas Udaipur 313003 (Rajasthan) India Contact Number 8696932729 Angle of Tilt 26 ° Plant Type Residential Rooftop Constructing Cost 375000 INR System Type All on Grid Benchmark Price 8.85 INR/kWh Constructing FIT 1000 INR Loan Proportion 0 % Capacity 50kWp Annual Loan Rate 6 % 0Year Time Zone (UTC+05:30) Chennai, Kolkata, Mumba... Generation Province FIT 0 INR/kWh 0Year Refund Method Fixed Payment Mortgage Azimuth 180° Generation City FIT 0 INR/kWh 0Year Generation County FIT 0 INR/kWh 0Year Creation Time 2020-11-08

Fig: Solar Power Plant Profile

8. Conclusion:

In conclusion, data generated in energy audits are useful for understanding the energy distribution and utilization of college. The college needs a maximum of 15731 kWh (Units) per month. On-grid Solar plant generates a maximum of 200 units per day so monthly generation is around 5000 to 6000 kWh (Units).

9. Recommendation:

- Use separate sub energy meter/connection for different locations like hostel, canteen, Mechanical workshop and offices.
- Replace all non-LED Tube lights with LED lights and bulbs, to save more power.
- Replace CRT monitor using LED or LCD monitor.

10. Result and Discussion:

As far as the energy audit, electricity audit is the main concern regarding the educational institutions. We have collected data by considering the tube light, fan, computer, printer, A.C. and instruments. The total requires full load power is 217.855 kW. The energy consumption by all devices is 15731 kWh per month and On-grid solar renewable sources generate around 3000 to 4000 Units/Month.

Environmental Audit Report



Techno India NJR Institute of Technology, Udaipur (Rajasthan)



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- 2. GREENING
- 3. ENERGY CONSERVATION
- 4. WATER CONSERVATION
- 5. CLEAN AIR
- 6. ANIMAL WELFARE
- 7. ENVIROMENTAL LEGISLATIVE

ACKNOWLEDGEMENT

Techno India Environmental Audit Team thanks the management of Techno India NJR Institute of Technology, Udaipur for assigning this important work of Environmental Audit. We appreciate the co-operation to our team for completion of study.

Our special thanks are due to:

- Director Mr. R.S. Vyas and Chair Person Mrs. Meera Ranawat and Principal Dr. Pankaj Kumar Porwal for providing all data for this audit work.
- Teaching and Supporting staff of college.

INTRODUCTION: OVERVIEW OF INSTITUTE

Techno India NJR Institute of Technology is located on a beautiful campus of 10 acres in Udaipur. The college has also adopted the Green Campus System for environmental conservation and sustainability. Following sustainable techniques have been adopted by this Institute:

- 1. Vermicomposting for biodegradable waste
- 2. Plastic recycling through a start-up project of the Institute
- 3. Use of treated wastewater from bathrooms in gardening
- 4. Wastewater from toilets is being disposed of utilizing septic tanks
- 5. Separate sections in Campus for e-waste and hazardous waste collection for authorized vendors are available for waste recycling.
- 6. Rainwater harvesting system
- 7. Solar panel for energy conservation

The whole Campus is divided into the following blocks.

S.No.	Block Name	Ground Coverage (Sq. M.)
1	Academic Block	3377.01
2	Work Shop	606.3
3	Hostel Building	597.9064
4	I 3 lab	275.394
5	Road	2668.166
6	Area of Covered by Tiles	1613.306
	Total Area	9138.824 Sq. M

This Institute has to ensure that all the campus wastes are disposed of responsibly by using proper waste segregation mechanism at the source and, if possible, converting it into a value-added environmentally friendly product. As per the guidelines provided by the Indian Ministry of Urban Development ((MoUD) in the form policies of SWM rules 2016, all gated societies and campuses have been advised to develop the treatment and segregation of waste within their premise.

The Campus has adopted the principles of the 'best practicable environmental option' to deliver its waste management services. The Campus applies a 'waste hierarchical approach' to reduce, reuse, recycle, and recover waste products in preference to waste disposal to landfill.

OBJECTIVES

The board aims of the eco-auditing system would be

- Environmental education through systematic environmental approach
- Improving environmental standards
- Benchmarking for environmental protection initiative
- Reduction in resource use
- Financial saving through a reduction in resource use
- Curriculum enrichment through practical experience
- Development of ownership, personal and social responsibility for the university campus and its environment
- Developing an environmental ethic and value system in young people

AUDIT PARTICIPANTS

On behalf of Institute:

Name	Education
Dr. Sangeeta Choudhary	M.E in Environmental Engineering and
	PhD. In Civil Engineering
Mr. Lokesh Malviya	PhD. Pursuing in Supply Chain, M.E in
	Supply Chain Management
Mr. Rajkumar Soni	M.Tech in Energy and Power System
Mr. Jitendra Choubisa	M.Tech Pursuing in Structural
	Engineering, B.Tech in Civil Engg.

ENVIRONMENTAL AUDIT QUESTIONARE

The areas of eco/environmental/green auditing to be followed/practiced by participating institutions:

- 1. Waste Minimization and Recycling
- 2. Greening
- 3. Energy Conservation
- 4. Water Conservation
- 5. Clean Air
- 6. Animal Welfare
- 7. Environmental Legislative

Does your Environmental Audit conducted earlier?

No, this is for the first time that institute has taken a systematic way of monitoring the environmental aspects of the campus for better management.

What is the total permanent population of the institute?			
	Male	Female	Total
Students	423	167	590
Teachers	39	10	49
Non-teaching Staff	4	1	5
Supporting Staff	4	2	6
Sub total	470	180	650
Approximate Number of Visitors (Per Day)	20		
What is total number of working days of your campus in a year?	270		

Where is the campus located?	
	The campus is located at Bhamashah (RIICO)
	Industrial Area, Kaladwas, Udaipur

Which of the following are available in your institute?			
а	Garden area	Available	
b	Play ground	Available	
c	Kitchen	Available	
d	Toilets	Available	
	Garbage Or Waste Store		
e	Yard	Available	
f	Laboratory	Available	
g	Canteen	Available	
h	Hostel Facility (numbers)	Available	
i	Guest House	Available	
			•

Which of the following are found near your institute?	
Municipal dump yard	Not in the area of institute
Garbage heap	No
Public convenience	Yes
Sewer line	Yes
Stagnant water	No
Open drainage	Yes
Industry – (Mention the type)	Yes, Campus is in Industrial Area, So various types of Industries are there, the nearest one is Soapstone manufacturing industry.
Bus / Railway station	About 11 Km from campus
Public halls	About 9-11 Km from campus

1.	WASTE MINIMIZATION AND RECYCLING				
1	Does your institute generate any waste? If so, what are they?	Yes. Solid, paper, plastic toiletry waste etc.			
2	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	Bio Degradable ~15 kg	Non-Biodegradable ~ 1kg	Hazardous 1 kg	Others <1 kg
3	How is the waste generated in the institute managed? By 1 Composting 2 Recycling 3 Reusing 4 Others (specify)	Institute has planned a Vermi-Compost at Backyard of college. Where Solid waste of the institute will be dumped. For Reusing – Civil Engineering Alumni are working on a project named Wricks , in which they are using plastic to make sustainable bricks.			e will be
4	Do you use recycled paper in institute?	Yes			
5	Do you use reused paper in institute?	Yes			
6	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	Yes, students from Civil engineering department conducted a various research works in the city. One of them was at the city's main vegetable market and they studied the waste generation and proposed a detailed case report in order to reduce the solid waste generation.			ty. One ket and sed a
7	Can you achieve zero garbage in your institute? If yes, how?		With proper handl we can achieve z		als and

2	GREENING THE CAMPUS		
8	Is there a garden in your institute?		Yes, About 2.6 Acre
9	Do students spend time in the garden?		Yes
10	Total number of Plants in Campus	Plant type	Approx. Number
		Trees	390
		Shrubs	160
		Grass Cover	2 Acre
11	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)		Ashoka, Mulberry, Bauhinia purpurea (Kachnar), Tamarind, Neem.
12	Is the College campus have any Horticulture Department		Yes
	Number of Staff working in Horticulture Department		2
13	Number of Tree Plantation Drives organized by College per annum. (If Any)		02 Drives till date
14	Number of Trees Planted in Last FY.		50 200-250 Ornamental Plants
	Survival Rate		90 %
15	Plant Distribution Program for Students and Community		 Green Kaladwas programme was organized in 2015-16 with the aim of planting trees across all over the industrial area. In 2016, Tree plantation programme by students and faculties was carried out in Campus garden with a quantity of 500. NCC Cadets organized a tree plantation drive in 2019-20.
16	Plant Ownership Program		Yes

3	ENERGY		
17	List few ways that you use energy in your institute. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.		By using LED bulb and solar street lights we are saving on electricity consumption. Also Solar panel on roof tops are installed with capacity of 50 Kilowatts.
18	Are there any energy saving methods employed in your institute? If yes, please specify. If no, suggest some		Yes renewable source of energy by using solar panels over street lights and solar panels with capacity of 50 Kilowatts on rooftop are installed in campus. Also the institute is planning for more 50 Kilowatts of solar installation.
19	How many CFL/LED bulbs has your institute installed?		LED Tube lights = 813
20	Are any alternative energy sources employed / installed in your institute? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.		Yes, Photovoltaic cells for solar energy in street lights.
21	Do you run "switch off" drills at institute?		No
22	Are your computers and other equipment's put on power-saving mode?		Yes
23	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?		No
		Month	Electricity Consumption (KVAH)
		Jan-21	7973
		Dec-20	6609
		Nov-20	10526
		Oct-20	16826
	Table showed the power consumption details of last year	Sep-20	15926
		Aug-20	18451
		Jul-20	15926
		Jun-20	17795
		Mar-20 Feb-20	7403
		Fe0-20	9848
		Jan-20	10884

4	WATER CONSERVATION		
24	List uses of water in your institute		The basic uses are: Drinking, Kitchen & Toilets, Gardening, Vehicle cleaning etc. We have installed a RO plant of capacity 50 LPH
25	How does your institute store water? Are there any water saving techniques followed in your institute?		An underground water tank of capacity 3 Lakh Liters is used to Pump water to various places.
26	If there is water wastage, specify why and How can the wastage be prevented / stopped?		No
27	Locate the point of entry of water and point of exit of waste water in your institute.		Entry Point – Borewell Exit Point – 1. R.O Water – Garden 2. R.O Water – Toilet 3. Bathroom – Garden 4. Rest Water – Water harvesting Pit
28	Write down few ways that could reduce the amount of water used in your institute		 By avoiding unnecessary or wastage of water. Water conservation awareness programs need to be scheduled.
29	Record water use from the institute water meter for six months (record at the same time of each day). At the end of the period, compile a table to show how many litres of water have been used.		Calculation of water usage is shown below
30	Does your institute harvest rain water?		Yes, Institute have planned a water harvesting system.
31	Is there any water recycling System.		Yes, R.O Water is fed to garden and is also attached to toilet supplies.
		Month	Water Consumption (KL)
	1	Jan, 2020	94
	2	Feb, 2020	135
	3	Mar, 2020	225
	4	Apr, 2020	240
	5	May, 2020	230
	6	June, 2020	220

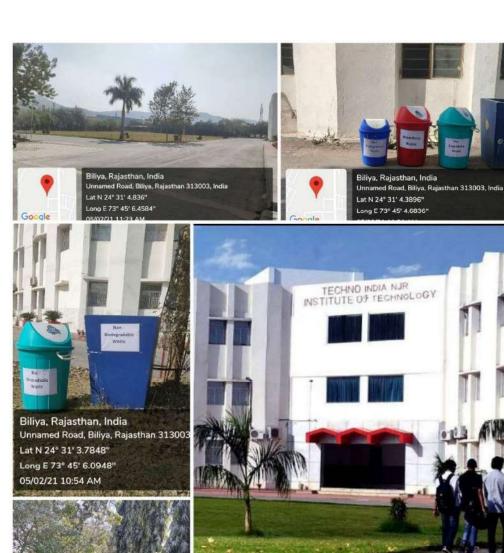
5	CLEAN AIR					
				I.	L	
32	Are the Rooms in Campus are Well Ventilated?	Yes				
33	Window Floor ratio of the Rooms	Good				
34	Provide details of school-owned motorized vehicles?	Buses	Cars	Vans	Other	Total
	No. of vehicles	10	07	01		17
	No. of vehicles more than five years old	10	05	00		15
	No. of Air conditioned vehicles		04			04
	PUC done	10	07	01		18
35	Specify the type of fuel used by your school's vehicles:			Total		
	Diesel	12				
	Petrol					
	CNG					
	LPG					
	Electric					
36	Air Quality Monitoring Program (If Any)		nonitori	ng systei	ts own ai n. Air qu by appro	ality
37	Students suffer from respiratory ailments? (If Any)					
38	Details of Genet	62.5 KV	(spare)	Generate and 125 nout the continuous		KV,

6	ANIMAL WELFARE		
39	List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects etc)	Cows, Squirrels, birds.	
40	How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC-AR)?	NA	
41	Does your institute have a Biodiversity programme or a KARUNA CLUB?	NA	

7	ENVIRONMENTAL LEGISLATIVE COMPLIANCE				
42	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes			
43	Does your institute have any rules to protect the environment? List possible rules you could include.	Yes we are working on using more of conventional sources of energy in our institute and also tree plantation drives are being organized on regular basis.			
44	Does Environmental Ambient Air Quality Monitoring conducted by the Institute?	Yes			
45	Does Water and Wastewater Quality monitoring conducted by the Institute?	Yes			
46	Does stack monitoring of DG sets conducted by the Institute?	No			
47	Is any warning notice, letter issued by state government bodies?	No			
48	Does any Hazardous waste generated by the Institute?	Yes.			
49	Does any Bio medical waste generated by the Institute? If yes explain its category and disposal method	No			

<u>ANNEXURE – PHOTOGRAPHS OF ENVIRONMENT CONSIOUSNESS</u>









Lat N 24° 31' 4.6956"

Long E 73° 45' 7.2792"

05/02/21 11:49 AM





Biliya, Rajasthan, India

Lat N 24° 31' 1.6716"

Unnamed Road, Biliya, Rajasthan 313003





To,

Dr. Sangeeta Choudhary, Associate Professor, Department of Civil Engineering, Techno India NJR Institute of Technology,

Certificate of Appreciation

This certificate of appreciation is issued to Techno India NJR Institute of Technology Udaipur for successfully completing the social welfare project "Pilot Study and Implementation of Solid Waste Management System in Savina Vegetable Market at Smart City Udaipur in Rajasthan" by students and faculties of Civil Engineering Department at Techno India NJR Institute of Technology, Udaipur. This project was executed with support and cooperation from Nagar Nigam Udaipur, Management of Savina Vegetable Market, ICLEI- South Asia and Secure Meter Udaipur.

With regards.

Bhupandra Salodia

Senior Project Office - Udaipur

ICLEI South Asia- Local Government for Sustainability

On behalf of

Deputy Secretary General, ICLEI & Executive Director, ICLEI South Asia- Local Government for Sustainability I.C L E I

Local

Governments
for Sustainability

ICLEI's mission is to build and serve a worldwide movement of local governments to achieve tangible improvements in global sustainability with special focus on environmental conditions through cumulative local actions.

ICLEI-South Asia

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Phone: +91-11-4974 7200 fax: +91-11-4974 7201 E-mail: icleisouthasia@iclei.org

World Secretariat

Kaiser-Friedrich-Str. 7 53113 Bonn Germany

Tel: +49-228 / 97 62 99-00 Fax: +49-228 / 97 62 99-01 Email: iclei@iclei.org

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World Wide Web www.idel.org http://southasia.idei.org/



Treasurer:

Hemant Jain

KALADWAS CHAMBER OF COMMERCE & INDUSTRIES

SPL-1, I.I.D. Centre, RIICO KALADWAS, Udaipur - 313003 (Raj.) E-mail : kcci.udaipur@gmail.com, Web : www.kcciudaipur.com

President

Rajendra Surana 9351456327

Ref.No.:

Secretary

Girish Sharma 9829364777

Date: 30-6-2006

Vice Præsident : Om Lalvarri Kaladwas Chamber of Commerce and industries is the lead industry Chamber of RIICO industrial Area, Kaladwas with more than 300 industries as members.

Joint Secretary : Jitendra Singh Rathore This is to confirm that Techno India NJR Institute of Technology had partnered with Kaladwas Chamber of Commerce and Industries in providing free food to needy people including 100 lunch packets and 100 Dinner packets everyday to needy people during Covid -19 pandemic months of April and May for 45 days.

Co-Treasurer : Abhishek Jain

Whereas KCCI provided dry ration, Techno India NJR team cooked food at their campus free of cost and distributed 200 food packets at their gate.

Executive:

Abbas Ali Hita
Arvind Mehta
Govind Bhardwaj
Jagannath Lohar
Keshu Lal Dangi
Lokesh Vashita
Manish Chandaliya
Mukesh Jain
Prabhu Lal Dangi
Prem Menariya
Rakesh Kabra

Vikas Motwani

Techno NJR also installed a Sanitising chamber at their gate for people coming to collect food packets. They also provided one sanitising tunnel for KCCI free of cost.

(Rayendra Surana) President



KALADWAS CHAMBER OF COMMERCE & INDUSTRIES

SPL-1, I.I.D. Centre, RIICO KALADWAS, Udaipur - 313003 (Raj.) E-mail: kcci.udaipur@gmail.com, Web: www.kcciudaipur.com

Treasurer : Hemant Jain President Rajendra Surana 9351456327 Secretary Girish Sharma 9829364777

Ref No :

Date: 1-7-2018

Vice Præsident : Om Lalva ni

Joint Secretary : Jitendra Singh Rathore

Co-Treasurer : Abhishek Jain

Executive:
Abbas Ali Hita
Arvind Mehta
Govind Bhardwaj
Jagannath Lohar
Keshu Lal Dangi
Lokesh Veshita
Manish Chandaliya
Mukesh Jain
Prabhu Lal Dangi
Prem Menariya
Rakesh Kabra

Vikas Motwani

Kaladwas Chamber of Commerce and Industries is the lead industry Chamber of RIICO industrial Area, Kaladwas with more than 300 industries as members.

This is to confirm that Techno India NJR Institute of Technology has installed R.O Plant with the capacity of 500 litres per hour at the gate of college for free supply of clean R.O water free of cost for workers in RIICO Industrial Area and nearby villages.

Hundreds of workers/villagers have benefitted with their philanthropic activity by getting clean drinking water.

We thank Techno India NJR for their concern for the society.

(Rajendra Surora)
President



INVOICE



SURRECA PÔRBES LTD.

DELIVERY PLANT: Plot NO.SP 635(A2), Road Number : 6 WAIPUR 302013 TRLESHONE :

Env. No : 6270190009 Order. No : 8050055025

Date : 12-04.2016 Date : 08.04.2016

DC. No : 27415249 PO. No: PO-04.04.2016

Date : 12.04.2016 : 04-04.2616

CUSTOMER'S NAME & ADDRESS

Customer ID :8020818

TECHNO INDIA NJR INSTITUTE OF TECHNOLOGY NJFK KNOWLEDGER CAMPUS, PLOT-SPL-T

BHAMP SHAH (RIICO) INQUSTRIAL AREAKALADWAS UDA IPUR 313003

: 02942650214 Cell : TECHNG IND Tel : 02942650214 Cell : 1 Email : technonjr@gmail.com

DESPATCH TO:

TECHNO INDIA NUR INSTITUTE OF TECHNOLOGY NJR KNOWLEDGER CAMPUS, PLOT-SPL-7

BHAMASHAH(RIICO) INDUSTRIAL AREAKALADWAS UDAIPUR 313003

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Payment Tarms : 100% AGAINST DELIVERY/INSL

Sales Person

9087446 - Lokesh Chaoudhary Kumar

or entire

TIN/LSF No.:08531601731 01/04/2006 CST No.:08531601731 01/04/2005 CIN No. : D27109WB1931PLC007010

PAN

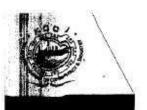
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SALES OFFICE: Shop No. 203 204 2nd Floor, The Comen II, #AF

Block, JAIPUR 302021 TELEPHONE: 0141-2211070 Authorised Signatory

For Eureka Forbes Limited ----

E.&O.E.



KALADWAS CHAMBER OF COMMERCE & INDUSTRIES

SPL-1, I.I.D. Centre, RIICO KALADWAS, Udaipur - 313003 (Raj.) E-mail : kcci.udaipur@gmail.com, Web : www.kcciudaipur.com

Treasurer: Hemant Jain President Rajendra Surana 9351456327 Secretary Girish Sharma 9829364777

Ref No :

Date: 1-4-2019

Vice President :

Om Lalva ni

Joint Secretary :

Jitendra Singh Rathore

Co-Treasurer : Abhishek Jain

Executive:
Abbas Ali Hita
Arvind Mehta
Govind Bhardwaj
Jagannath Lohar
Keshu Lal Dangi
Lokesh Vashita
Manish Chandaliya
Mukesh Jain
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Prem Menariya
Rakesh Kabra

Vikas Motwani

Kaladwas Chamber of Commerce and industries (KCCI) is the lead industry Chamber of RIICO industrial Area, Kaladwas with more than 300 industries as members.

This is to confirm that Techno India NJR Institute of Technology had donated 300 Tree Guards costing Rs. 141,000/- for Green Kaladwas Drive organised in the month of July 2016.

We thank the Institute for their generous support in community and social support activities of Kaladwas area and nearby villages.

(Rajendra Suvara)
President

o.: 08504003807

Mobile: 0982950



A.K. Engineering Works Tin Shade Structure, Green Net House, Tree Guard, School Furniture Section Window, Rolling Shutter, Grills, Steel Door, Steel Equipment & Fabricators

Rastradoot Press Street, Near A-One School, Ayad. Udaipur (Raj.)

Messers TECHHO MIR College Code		Date: Dulby lol6		
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