



<b>7.1.3</b>	<p><b>Facilities in the Institution for the management of the following types of degradable and non-degradable waste</b></p> <p>Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management</p>
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Relevant documents like agreements/MoUs with Government and other approved agencies

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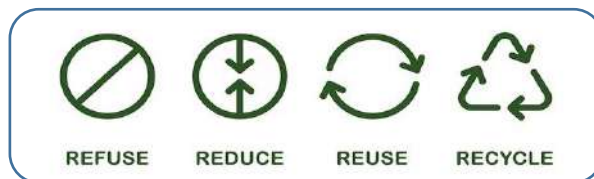
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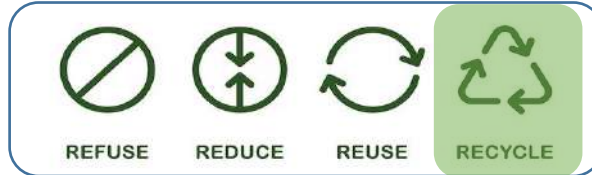
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**1 RELEVANT DOCUMENTS LIKE AGREEMENTS/MoUs WITH GOVERNMENT AND OTHER APPROVED AGENCIES**

**1.1 E-WASTE RECYCLING**



Reg. No. 01/C-4/Mathura/126/17,02.03.17 Certificate Number: 3441/2020  
 Issued Date: 09-10-2020



**E-Waste Recyclers India**  
 Government Authorized  
 ISO 9001:2015 & 14001:2015/ OHSAS 18001:2007

**CERTIFICATE OF DESTRUCTION**

Dear Associate to our Green Earth program

This is to certify that e-waste received from Atmiya University  
 Address: "Yogidham Gurukul", Kalawad Road, Rajkot - 360005, Gujarat  
 has been disposed off in an environment friendly manner.

Description: E-Waste  
 Weight: 1955 Kg MRN/EWRI No: 085/4227, Dated - 22.09.2020

We thank you for your efforts in contributing to a Green Environment.

Authorized Signatory EWRI  Works Manager EWRI 








FACILITY : E-50 UPSIDC, KOSI KOTAWAN, DISTT.MATHURA - 281403 (U.P) Toll Free:-1800-102-5679 / Customer Care:-011-4000-0000  
 ewaste@ewri.in www.ewri.in





Reg. No. 01/C-4/Mathura/126/17,02.03.17

Certificate Number: 3975/2021

Issued Date: 17-06-2021



**www.EWRI.in**  
PRO. EPR, RECYCLING & DATA SANITIZATION

**E-Waste Recyclers India**

Government Authorized  
ISO 9001:2015 & 14001:2015/ OHSAS 18001:2007

**CERTIFICATE OF DESTRUCTION**

Dear Associate to our Green Earth program

This is to certify that e-waste received from Atmiya University

Address: "Yogidham Gurukul", Kalawad Road, Rajkot - 360005, Gujarat

has been disposed off in an environment friendly manner.

Description: E-Waste

Weight: 498 Kg MRN/EWRI No: 191/7029, Dated:- 23-04-2021

We thank you for your efforts in contributing to a Green Environment.

Authorized Signatory  
EWRI



Works Manager  
EWRI



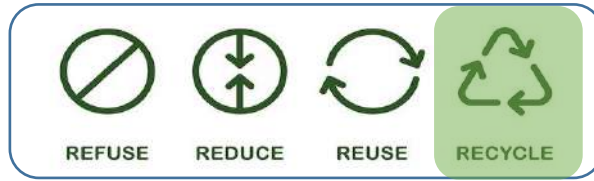
FACILITY : E-50 UPSIDC, KOSI KOTAWAN, DISTT.MATHURA - 281403 (U.P) Toll Free:-1800-102-5679 / Customer Care:-011-4000-0000  
ewaste@ewri.in www.ewri.in

**Registrar**  
Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
**Rajkot**





**1.2 BIO-WASTE DISPOSAL**



**CERTIFICATE OF REGISTRATION**



**DISTROMED BIO CLEAN PRIVATE LIMITED**

**Common Bio Medical Waste Treatment Facility**



ISO 9001: 2015 A-14001-2015  
Certificate No.: 25000-MS-13-053

Office : 307-308, Century Center, Near Gujarat Samachar Press, Kanta Stri Vikas Gruh Road, Rajkot - 360002.

Phone : 0281 - 2225233, 75748 78232 / 33 E-mail : distromed2002@yahoo.co.in

Facility : Plot No. 272, 273, 274, 169, 170, Kuvadwa G.I.D.C., Rajkot-Ahmedabad National High Way,  
Kuvadwa - 360023, Ta. & Dist. Rajkot.

**FACILITY PROVIDER FOR TREATMENT AND  
DISPOSAL OF BIO MEDICAL WASTE**

Authorised by **Gujarat Pollution Control Board**

[ Authorization No. : **BMW-357302** ]

*Is hereby Issued to :*

*Hosp./Dr.*

ATMIYA UNIVERSITY, YOGIDHAM GURUKUL

KALAWAD ROAD, RAJKOT

Registration No. :

RIT3721

Validity up to :

01/04/2024 TO 31/03/2025

Bio Medical Waste Collection, Transportation, Treatment and Disposal

As per BMW Rules - 2016, Published by Ministry of

Environment, Forest and Climate Change Government of India.

For, **DISTROMED BIO CLEAN PRIVATE LIMITED**

This is conditional certificate : On non payment of disposal charge, this certificate will be invalid

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





## CERTIFICATE OF REGISTRATION



### **DISTROMED BIO CLEAN PRIVATE LIMITED**

**Common Bio Medical Waste Treatment Facility**



ISO 9001:2015 & 14001:2015  
Certificate No. 9590/VB/12-990

**Office :** 307-308, Century Center, Near Gujarat Samachar Press, Kanta Stri Vikas Gruh Road, Rajkot - 360002.  
**Phone :** 0281 - 2225233, 75748 78232 / 33 **E-mail :** distromed2002@yahoo.co.in  
**Facility :** Plot No. 272, 273, 274, 169, 170, Kuvadwa G.I.D.C., Rajkot-Ahmedabad National High Way,  
Kuvadwa - 360023, Ta. & Dist. Rajkot.

### **FACILITY PROVIDER FOR TREATMENT AND DISPOSAL OF BIO MEDICAL WASTE**

Authorised by **Gujarat Pollution Control Board**  
[ Authorization No. : **BMW-357302** ]

*Is hereby Issued to :*

**Hosp./Dr. ATMIYA UNIVERSITY, YOGIDHAM GURUKUL**

**KALAWAD ROAD, RAJKOT**

**Registration No. : RJT - 3721**

**Validity up to : 01-04-2023 TO 31-03-2024**

*Bio Medical Waste Collection, Transportation, Treatment and Disposal  
As per BMW Rules - 2016, Published by Ministry of  
Environment, Forest and Climate Change Government of India.*

For, **DISTROMED BIO CLEAN PRIVATE LIMITED**

*This is conditional certificate : On non payment of disposal charge, this certificate will be invalid*

**Registrar**  
Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
**Rajkot**





**1.3 GREEN AUDIT REPORTS ON WATER CONSERVATION BY RECOGNISED BODIES**



Green audit reports on water conservation – 2019-20

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**ATMIYA  
UNIVERSITY**

NAAC – Cycle – 1  
AISHE: U-0967

Criterion 7

I V & B P

KI 7.1

M 7.1.3

**GREEN AUDIT REPORT FOR  
WATER CONSERVATION  
2019-20**

At Atmiya University, Rajkot

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**



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### Atmiya University

The great scientist and former President, Dr. APJ Abdul Kalam, wrote in the preface of his autobiography: "Each individual creature on this beautiful planet is created by God to fulfil a particular role."

Atmiya Group of Institution holds history of more than 55 years. One of the oldest organization of Saurashtra region. AGI offers various courses under the various academic institutions Atmiya Institute of Technology and Science, Atmiya Institute of Pharmacy, Shri M. & N. Virani Science College etc.

ATMIYA University bestows wisdom and knowledge upon the learner to recognize this particular role. Established on April 13, 2018, under the Gujarat Private University Act 11, 2018, ATMIYA University emphasizes to train young minds in consonance with the doctrines of higher education and human values. The aim of this University is to spread eternal happiness and to create a happy society in letter and spirit. The motto "सुहृदं सर्व भूतानम्" (Suhardam Sarva Bhootanam) is an expression of willingness to attain harmony with each creation of the Almighty!

His Divine Holiness Hariprasad Swamiji Maharaj, the present spiritual successor of Lord Swaminarayan is the mentor of ATMIYA University. With His blessings, His Divinity P.P.Tyagvallabh Swamiji has envisioned Atmiya University to be a global leader in showing the path to enshrine Jeevan Vidya into every domain area of higher education, in the pursuit of transformative outcomes of education for living life to the fullest. For this, over the years, He has invested His sweat and toil and that of His team, to create state-of-the-art learning facilities and spaces. The ultimate goal is to attain 'Atmiyata'.

The University status is in recognition of the appreciable learning facilities and qualities of the 'Atmiya Group of Institutions' (AGI), which have demonstrated many milestones of growth and development.

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**Atmiya University  
Rajkot**







**Water Management**

Water conservation is a key activity as water availability affects on the development of the campus as well as on all area of development such as farming, industries, etc. Keeping this view water conservation activity is carried out.

**Sources of Water**

- Rainwater Harvesting
- Bore water
- A Main source of water is RMC connection and Ground water is extracted to fulfill the requirement. The college stores the water in overhead tank.

**Daily water requirement is 63 KLitre**

**Sewage Disposal Facility**

Atmiya University is situated in the municipal area of Rajkot. RMC (Rajkot Municipal Corporation) provides municipal facilities to the university. Sewage is being disposed in the sewerage network of Rajkot city.

**RO Plant**

RO plants provide clean and safe drinking water by removing contaminants, such as bacteria, viruses, and dissolved solids, from the water. This ensures that students, faculty, and staff have access to safe drinking water, promoting better health and well-being. With access to clean drinking water on campus, there is less reliance on bottled water. This can lead to a significant reduction in plastic waste generated by the university, contributing to environmental sustainability efforts.

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Green Initiative:**

The RO (reverse osmosis) water is being used for the irrigation purpose in the garden of university.



**Reverse Osmosis Plant for Drinking Water**

**Rainwater Harvesting:**

**Capacity:** 17 Lac Liters

**Environmental Benefits:** By reducing the demand for potable water and minimizing storm water runoff, rainwater harvesting contributes to environmental conservation efforts. It helps preserve freshwater resources, protects aquatic ecosystems, and mitigates the impacts of urbanization on natural hydrological cycles.

**Water Conservation:** Rainwater harvesting reduces reliance on traditional water sources by collecting and storing rainwater for various uses, such as irrigation, flushing toilets, and landscape maintenance. This helps conserve freshwater resources and reduces the strain on municipal water supplies, especially during periods of drought or water scarcity.

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Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Rainwater Harvesting Tank**

**Water Usage in the Campus**

Basic use of water in campus	KL/Day
Drinking	9
Gardening	15
Kitchen and Toilets	12
Others	9
Hostel	18
<b>Total</b>	<b>63 KL/Day</b>





**Description of Water Storage Tank**

Building	SN	Tank Description	Size (liter)	No. of Tank	Capacity (liter)
AU Building	1	Raw Water- A Wing	2500	4	10000
	2	Raw Water- B Wing	2500	4	10000
	3	Master RO - Raw Water	5000	3	15000
	4	RO Water (A Wing-2, B Wing-2, RO-3)	2500	7	17500
	5	Pharmacy and Mechanical Lab	2000	1	2000
	6	Faculty Block (A& B Wing)	2500	2	5000
	7	Library Terrace	2000	1	2000
	8	<b>Raw Water Near AU Building- Underground</b>	275000	1	275000
MPAB	9	RO Water - at Terrace	2000	2	4000
	10	Raw Water- at Terrace	60000	1	60000
	11	Raw Water- at Terrace	40000	7	280000
	12	<b>Near Building- Underground</b>	333746	2	667492
	13	<b>Near Building- Underground</b>	336826	2	673652
	14	<b>Below Temple- Underground</b>	189924	1	189924
	15	<b>Below Temple- Underground</b>	43718	1	43718
	16	<b>In Front of Store- Underground</b>	123604	1	123604
Workshop	17	RO Water- at Terrace	2000	1	2000
	18	Raw Water- at Terrace	2000	2	4000
	19	Raw Water- at Terrace	5000	1	5000
	20	<b>Behind Workshop- Round Tank- Underground</b>	45650	1	45650
Science Building	21	RO Water- at Terrace	2500	1	2500
	22	Raw Water Tank- at Terrace	23300	2	46600
	23	Raw Water Tank- Ladies Toilet	30000	3	90000
	24	CIF Lab	1500	1	1500
	25	<b>Raw Water- OTIS- Underground</b>	32620	1	32620

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Atmiya University, Rajkot-Gujarat-India

**Atmiya University**

**Rajkot**





Building	SN	Tank Description	Size (liter)	No. of Tank	Capacity (liter)
	26	Wastewater- Outside the Building	2000	1	2000
Yogidham Gate	27	<b>Raw Water Tank- Underground</b>	48750	4	195000
Niramay	28	RO Water Tank at Terrace	2500	1	2500
	29	Raw Water Tank- at Terrace	11650	1	11650
	30	Raw Water Tank- Near Office	5000	2	10000
Sarvanaman	31	Raw Water Tank- at Terrace	2000	1	2000
	32	Raw Water Tank- at Terrace	8550	1	8550
	33	Raw Water- inside building	600	1	600
<b>Total Water Storage Capacity</b>					<b>28,41,060</b>

**Rain water harvesting for the year 2019-20**

Month	Water Collected (litre)	Water Used (liters)
June	6,50,800	6,25,000
July	11,50,400	11,60,700
August	11,80,600	11,70,800
September	10,50,600	9,30,750
October	3,40,500	4,10,000
November	00	75,650

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Ground Water recharge Bore well**

The excess rainwater beyond the capacity of rain water storage tank is channelized to bore-well for ground water recharge.

**Calculation of rainwater harvesting at Atmiya University**

SN	Building	Roof Area (m <sup>2</sup> )
1	AU Main Building	8225.00
2	Multipurpose Academic Building	2050
3	Workshop	1650
4	Science Building	2400
<b>Total</b>		<b>14,325 m<sup>2</sup></b>

Rainfall in the Rajkot city: 1528 mm

Runoff coefficient for concrete= 0.75

$$\begin{aligned} \text{Total Water conserved} &= \text{rainfall} * \text{runoff coefficient} * \text{roof area} \\ &= 1.528 * 0.75 * 14325 \\ &= 16416.45 \text{ m}^3 \\ &= 16416450 \text{ litres} \end{aligned}$$

**Note:-**Rainfall data taken from Rajkot municipal corporation official website and Runoff coefficient taken 0-1 ranges rough to smooth surface.

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Impact: Social and Institutional**

**1. Building Construction with harvested water:**

- 80 lack liter water was utilized from harvested source for the under-construction Multipurpose Building.

**2. Social Impact:**

- **Water Conservation Awareness:** Implementing rainwater harvesting raises awareness among students, faculty, and the community about sustainable water management. It serves as an educational tool, encouraging environmentally responsible behaviour.
- **Enhanced Water Security:** Rajkot, like many areas, faces water scarcity, particularly during dry seasons. Rainwater harvesting contributes to local water security, helping the university reduce its reliance on municipal or external water supplies. This leads to a more self-sufficient water supply system, directly benefiting the university community.
- **Reduced Impact on Municipal Resources:** Collecting and using rainwater on campus eases the demand on the city's water supply, which benefits the broader community. By harvesting rainwater, the university helps free up municipal water resources for other essential needs, supporting a more balanced distribution of water across Rajkot.
- **Public Health Improvement:** Rainwater harvesting contributes indirectly to public health. By reducing dependency on groundwater, it helps maintain groundwater levels, reducing the risk of water contamination. Access to cleaner, safer water reduces the prevalence of waterborne diseases in the surrounding community.

**3. Institutional Impact:**

- **Cost Savings and Resource Efficiency:** Rainwater harvesting can significantly reduce the university's water bills. This financial benefit allows for reallocating resources toward other green initiatives, research, and educational activities. The long-term savings contribute to the university's financial sustainability.
- **Enhanced Institutional Reputation:** By implementing rainwater harvesting, the university positions itself as an environmentally conscious institution. This commitment to sustainability can enhance the university's image, attracting students, faculty, and partners who value environmental responsibility.
- **Educational Value and Research Opportunities:** The system provides a hands-on learning opportunity for students, particularly those studying environmental science,

Page 8 of 9





engineering, and sustainability. Rainwater harvesting projects offer a real-life platform for research, workshops, and practical training, helping students gain valuable skills in sustainable practices.

- **Compliance with Regulatory Standards:** Adopting rainwater harvesting aligns with environmental regulations and standards, positioning the university as compliant with local and national environmental policies. This alignment can be beneficial during audits and assessments, potentially granting the institution access to incentives or recognition programs.
- **Contribution to Green Campus Initiatives:** Rainwater harvesting is a foundational element of a broader green campus initiative, supporting other sustainability goals like waste management, energy conservation, and sustainable landscaping. This holistic approach can also provide a model for other institutions in Rajkot and beyond.

#### **Recommendations**

- **Rainwater Harvesting Expansion:** Install additional collection units to maximize water capture during the monsoon season.
- **Smart Metering:** Implement digital meters for real-time monitoring of water usage.
- **Awareness Campaigns:** Conduct workshops for students and staff on water conservation.

#### **Conclusion**

Atmiya University has made significant strides in water conservation, with key initiatives like rainwater harvesting and wastewater reuse. However, there is scope for improvement in optimizing consumption and addressing inefficiencies. Implementing the recommendations will enhance sustainability and ensure compliance with GPCB standards.

H-G. Sonbhalan  
Schedule-1 Auditor

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**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**







# Certificate

## Atmiya University, Rajkot

is dedicated to environmental stewardship through its commitment to water conservation,  
contributing significantly to the promotion of sustainable practices.

Issued on: 17 May 2021

Mr. Hemantkumar Sonkusare  
Civil Engineer, GPCB recognized Schedule-I Environmental Auditor

Green audit reports on water conservation – 2020-21





**ATMIYA  
UNIVERSITY**

**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion 7**

**I V & B P**

**KI 7.1**

**M 7.1.3**

**GREEN AUDIT REPORT FOR  
WATER CONSERVATION  
2020-21**

At Atmiya University, Rajkot

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**



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### Atmiya University

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Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





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**Sources of Water**

- Rainwater Harvesting
- Bore water
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**Daily water requirement is 32 KL**

**Sewage Disposal Facility**

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**Registrar**

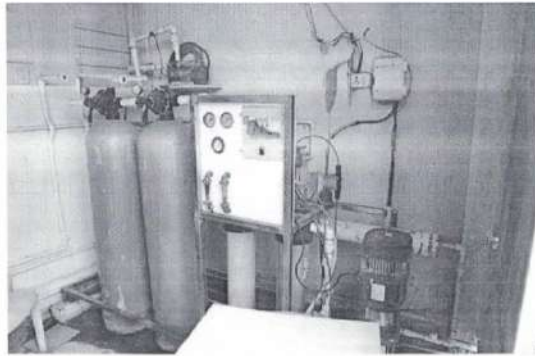
Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Green Initiative:** The RO (reverse osmosis) water is being used for the irrigation purpose in the garden of university.



**Reverse Osmosis Plant for Drinking Water**

**Rainwater Harvesting:**

**Capacity:** 17 Lac Liters

**Environmental Benefits:** By reducing the demand for potable water and minimizing storm water runoff, rainwater harvesting contributes to environmental conservation efforts. It helps preserve freshwater resources, protects aquatic ecosystems, and mitigates the impacts of urbanization on natural hydrological cycles.

**Water Conservation:** Rainwater harvesting reduces reliance on traditional water sources by collecting and storing rainwater for various uses, such as irrigation, flushing toilets, and landscape maintenance. This helps conserve freshwater resources and reduces the strain on municipal water supplies, especially during periods of drought or water scarcity.

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Rainwater Harvesting Tank**

**Water Usage in the Campus**

Basic use of water in campus	KL/Day
Drinking	3
Gardening	15
Kitchen and Toilets	4
Others	6
Hostel	4
<b>Total</b>	<b>32 KL/Day</b>





**Description of Water Storage Tank**

Building	SN	Tank Description	Size (liter)	No. of Tank	Capacity (liter)
AU Building	1	Raw Water- A Wing	2500	4	10000
	2	Raw Water- B Wing	2500	4	10000
	3	Master RO - Raw Water	5000	3	15000
	4	RO Water (A Wing-2, B Wing-2, RO-3)	2500	7	17500
	5	Pharmacy and Mechanical Lab	2000	1	2000
	6	Faculty Block (A& B Wing)	2500	2	5000
	7	Library Terrace	2000	1	2000
	8	<b>Raw Water Near AU Building- Underground</b>	275000	1	275000
MPAB	9	RO Water - at Terrace	2000	2	4000
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Workshop	16	<b>In Front of Store- Underground</b>	123604	1	123604
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Science Building	20	<b>Behind Workshop- Round Tank- Underground</b>	45650	1	45650
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**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





Building	SN	Tank Description	Size (liter)	No. of Tank	Capacity (liter)
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Yogidham Gate	27	Raw Water Tank- Underground	48750	4	195000
Niramay	28	RO Water Tanki at Terrace	2500	1	2500
	29	Raw Water Tank- at Terrace	11650	1	11650
	30	Raw Water Tank- Near Office	5000	2	10000
Sarvanaman	31	Raw Water Tank- at Terrace	2000	1	2000
	32	Raw Water Tank- at Terrace	8550	1	8550
	33	Raw Water- inside building	600	1	600
<b>Total Water Storage Capacity</b>					<b>28,41,060</b>

**Rain water harvesting for the year 2020-21**

Month	Water Collected (liter)	Water Used (liters)
June	5,45,700	5,35,000
July	11,54,700	7,60,700
August	11,45,900	6,40,800
September	7,50,600	8,20,750
October	4,56,500	7,90,000
November	00	5,06,150

**Ground Water recharge Borewell**

The excess rainwater beyond the capacity of rain water storage tank is channelized to borewell for ground water recharge.







**Calculation of rainwater harvesting at Atmiya University**

SN	Building	Roof Area (m <sup>2</sup> )
1	AU Main Building	8225.00
2	Multipurpose Academic Building	2050
3	Workshop	1650
4	Science Building	2400
Total		14,325 m <sup>2</sup>

Rainfall in the Rajkot city: 1151.66 mm

Runoff coefficient for concrete= 0.75

Total Water conserved = rainfall \* runoff coefficient \* roof area  
= 1.1516 \* 0.75 \* 14325  
= 12372.5025 m<sup>3</sup>  
= **12372502 litres**

**Note:-**Rainfall data taken from Rajkot municipal corporation official website and Runoff coefficient taken 0-1 ranges rough to smooth surface.

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Impact: Social and Institutional**

**1. Building Construction with harvested water:**

- 50 lack liter water was utilized from harvested source for the under-construction Multipurpose Building.

**2. Social Impact:**

- **Water Conservation Awareness:** Implementing rainwater harvesting raises awareness among students, faculty, and the community about sustainable water management. It serves as an educational tool, encouraging environmentally responsible behaviour.
- **Enhanced Water Security:** Rajkot, like many areas, faces water scarcity, particularly during dry seasons. Rainwater harvesting contributes to local water security, helping the university reduce its reliance on municipal or external water supplies. This leads to a more self-sufficient water supply system, directly benefiting the university community.
- **Reduced Impact on Municipal Resources:** Collecting and using rainwater on campus eases the demand on the city's water supply, which benefits the broader community. By harvesting rainwater, the university helps free up municipal water resources for other essential needs, supporting a more balanced distribution of water across Rajkot.
- **Public Health Improvement:** Rainwater harvesting contributes indirectly to public health. By reducing dependency on groundwater, it helps maintain groundwater levels, reducing the risk of water contamination. Access to cleaner, safer water reduces the prevalence of waterborne diseases in the surrounding community.

**3. Institutional Impact:**

- **Cost Savings and Resource Efficiency:** Rainwater harvesting can significantly reduce the university's water bills. This financial benefit allows for reallocating resources toward other green initiatives, research, and educational activities. The long-term savings contribute to the university's financial sustainability.
- **Enhanced Institutional Reputation:** By implementing rainwater harvesting, the university positions itself as an environmentally conscious institution. This commitment to sustainability can enhance the university's image, attracting students, faculty, and partners who value environmental responsibility.
- **Educational Value and Research Opportunities:** The system provides a hands-on learning opportunity for students, particularly those studying environmental science,

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





engineering, and sustainability. Rainwater harvesting projects offer a real-life platform for research, workshops, and practical training, helping students gain valuable skills in sustainable practices.

- **Compliance with Regulatory Standards:** Adopting rainwater harvesting aligns with environmental regulations and standards, positioning the university as compliant with local and national environmental policies. This alignment can be beneficial during audits and assessments, potentially granting the institution access to incentives or recognition programs.
- **Contribution to Green Campus Initiatives:** Rainwater harvesting is a foundational element of a broader green campus initiative, supporting other sustainability goals like waste management, energy conservation, and sustainable landscaping. This holistic approach can also provide a model for other institutions in Rajkot and beyond.

**Recommendations**

- **Rainwater Harvesting Expansion:** Install additional collection units to maximize water capture during the monsoon season.
- **Smart Metering:** Implement digital meters for real-time monitoring of water usage.
- **Awareness Campaigns:** Conduct workshops for students and staff on water conservation.

**Conclusion**

Atmiya University has made significant strides in water conservation, with key initiatives like rainwater harvesting and wastewater reuse. However, there is scope for improvement in optimizing consumption and addressing various issues and campaigning through different stakeholders. Implementing the recommendations will enhance sustainability and ensure compliance with GPCB standards.

  
H.G. Sonkwan  
Schedule-1 Auditor







# Certificate

## Atmiya University, Rajkot

demonstrates its dedication to environmental stewardship through a strong commitment to water conservation, playing a vital role in fostering sustainable practices.

Issued on: 24 May 2022

Mr. Hemantkumar Sonkusare  
Civil Engineer, GPCB recognized Schedule-I Environmental Auditor

Green audit reports on water conservation – 2021-22





**ATMIYA  
UNIVERSITY**

NAAC – Cycle – 1  
AISHE: U-0967

Criterion 7

I V & B P

KI 7.1

M 7.1.3

GREEN AUDIT REPORT FOR  
WATER CONSERVATION  
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**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**



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### Atmiya University

The great scientist and former President, Dr. APJ Abdul Kalam, wrote in the preface of his autobiography: "Each individual creature on this beautiful planet is created by God to fulfil a particular role."

Atmiya Group of Institution holds history of more than 55 years. One of the oldest organization of Saurashtra region. AGI offers various courses under the various academic institutions Atmiya Institute of Technology and Science, Atmiya Institute of Pharmacy, Shri M. & N. Virani Science College etc.

ATMIYA University bestows wisdom and knowledge upon the learner to recognize this particular role. Established on April 13, 2018, under the Gujarat Private University Act 11, 2018, ATMIYA University emphasizes to train young minds in consonance with the doctrines of higher education and human values. The aim of this University is to spread eternal happiness and to create a happy society in letter and spirit. The motto *Suhardam Sarva Bhootanam* is an expression of willingness to attain harmony with each creation of the Almighty!

His Divine Holiness Hariprasad Swamiji Maharaj, the present spiritual successor of Lord Swaminarayan is the mentor of ATMIYA University. With His blessings, His Divinity P.P.Tyagvallabh Swamiji has envisioned Atmiya University to be a global leader in showing the path to enshrine Jeevan Vidya into every domain area of higher education, in the pursuit of transformative outcomes of education for living life to the fullest. For this, over the years, He has invested His sweat and toil and that of His team, to create state-of-the-art learning facilities and spaces. The ultimate goal is to attain 'Atmiyata'.

The University status is in recognition of the appreciable learning facilities and qualities of the 'Atmiya Group of Institutions' (AGI), which have demonstrated many milestones of growth and development.

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Water Management**

Water conservation is a key activity as water availability affects on the development of the campus as well as on all area of development such as farming, industries, etc. Keeping this view water conservation activity is carried out.

**Sources of Water**

- Rainwater Harvesting
- Bore water
- A Main source of water is RMC connection and Ground water is extracted to fulfill the requirement. The college stores the water in overhead tank.

**Daily water requirement is 95 KL**

**Sewage Disposal Facility**

Atmiya University is situated in the municipal area of Rajkot. RMC (Rajkot Municipal Corporation) provides municipal facilities to the university. Sewage is being disposed in the sewerage network of Rajkot city.

**RO Plant**

RO plants provide clean and safe drinking water by removing contaminants, such as bacteria, viruses, and dissolved solids, from the water. This ensures that students, faculty, and staff have access to safe drinking water, promoting better health and well-being. With access to clean drinking water on campus, there is less reliance on bottled water. This can lead to a significant reduction in plastic waste generated by the university, contributing to environmental sustainability efforts.

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Green Initiative:** The RO (reverse osmosis) water is being used for the irrigation purpose in the garden of university.



**Reverse Osmosis Plant for Drinking Water**

**Rainwater Harvesting:**

**Capacity: 17 Lac Liters**

**Environmental Benefits:** By reducing the demand for potable water and minimizing storm water runoff, rainwater harvesting contributes to environmental conservation efforts. It helps preserve freshwater resources, protects aquatic ecosystems, and mitigates the impacts of urbanization on natural hydrological cycles.

**Water Conservation:** Rainwater harvesting reduces reliance on traditional water sources by collecting and storing rainwater for various uses, such as irrigation, flushing toilets, and landscape maintenance. This helps conserve freshwater resources and reduces the strain on municipal water supplies, especially during periods of drought or water scarcity.









**Rainwater Harvesting Tank**

**Water Usage in the Campus**

Basic use of water in campus	KL/Day
Drinking	15
Gardening	16
Kitchen and Toilets	20
Others	15
Hostel	29
<b>Total</b>	<b>95 KL/Day</b>

**Description of Water Storage Tank**

Building	SN	Tank Description	Size (litre)	No. of Tank	Capacity (litre)
AU Building	1	Raw Water- A Wing	2500	4	10000
	2	Raw Water- B Wing	2500	4	10000
	3	Master RO - Raw Water	5000	3	15000
	4	RO Water (A Wing-2, B Wing-2, RO-3)	2500	7	17500
	5	Pharmacy and Mechanical Lab	2000	1	2000
	6	Faculty Block (A& B Wing)	2500	2	5000
	7	Library Terrace	2000	1	2000
	8	<b>Raw Water Near AU Building- Underground</b>	275000	1	275000
MPAB	9	RO Water - at Terrace	2000	2	4000
	10	Raw Water- at Terrace	60000	1	60000
	11	Raw Water- at Terrace	40000	7	280000
	12	<b>Near Building- Underground</b>	333746	2	667492
	13	<b>Near Building- Underground</b>	336826	2	673652





Building	SN	Tank Description	Size (litre)	No. of Tank	Capacity (litre)
	14	Below Temple- Underground	189924	1	189924
	15	Below Temple- Underground	43718	1	43718
	16	In Front of Store- Underground	123604	1	123604
Workshop	17	RO Water- at Terrace	2000	1	2000
	18	Raw Water- at Terrace	2000	2	4000
	19	Raw Water- at Terrace	5000	1	5000
	20	Behind Workshop- Round Tank- Underground	45650	1	45650
Science Building	21	RO Water- at Terrace	2500	1	2500
	22	Raw Water Tank- at Terrace	23300	2	46600
	23	Raw Water Tank- Ladies Toilet	30000	3	90000
	24	CIF Lab	1500	1	1500
	25	Raw Water- OTIS- Underground	32620	1	32620
	26	Wastewater- Outside the Building	2000	1	2000
Yogidham Gate	27	Raw Water Tank- Underground	48750	4	195000
Niramay	28	RO Water Tank at Terrace	2500	1	2500
	29	Raw Water Tank- at Terrace	11650	1	11650
	30	Raw Water Tank- Near Office	5000	2	10000
Sarvanaman	31	Raw Water Tank- at Terrace	2000	1	2000
	32	Raw Water Tank- at Terrace	8550	1	8550
	33	Raw Water- inside building	600	1	600
<b>Total Water Storage Capacity</b>					<b>28,41,060</b>





**Rain water harvesting for the year 2021-22**

Month	Water Collected (litre)	Water Used (litre)
June	4,47,500	3,21,000
July	9,40,800	8,90,700
August	11,70,100	11,20,800
September	10,50,600	9,30,750
October	9,40,500	8,10,000
November	00	4,76,250

**Ground Water recharge Bore well**

The excess rainwater beyond the capacity of rain water storage tank is channelized to bore-well for ground water recharge.

**Calculation of rainwater harvesting at Atmiya University**

SN	Building	Roof Area (m <sup>2</sup> )
1	AU Main Building	8225.00
2	Multipurpose Academic Building	2050
3	Workshop	1650
4	Science Building	2400
Total		14,325 m <sup>2</sup>

Rainfall in the Rajkot city: 1312.33 mm

Runoff coefficient for concrete= 0.75

$$\begin{aligned} \text{Total Water conserved} &= \text{rainfall} * \text{runoff coefficient} * \text{roof area} \\ &= 1.3123 * 0.75 * 14325 \\ &= 14099.023 \text{ m}^3 \\ &= \mathbf{1,40,99,023 \text{ litres}} \end{aligned}$$

**Note:-**Rainfall data taken from Rajkot municipal corporation official website and Runoff coefficient taken 0-1 ranges rough to smooth surface.





**Impact: Social and Institutional**

**1. Building Construction with harvested water:**

- 120 lack liter water was utilized from harvested source for the under-construction Multipurpose Building.

**2. Social Impact:**

- **Water Conservation Awareness:** Implementing rainwater harvesting raises awareness among students, faculty, and the community about sustainable water management. It serves as an educational tool, encouraging environmentally responsible behaviour.
- **Enhanced Water Security:** Rajkot, like many areas, faces water scarcity, particularly during dry seasons. Rainwater harvesting contributes to local water security, helping the university reduce its reliance on municipal or external water supplies. This leads to a more self-sufficient water supply system, directly benefiting the university community.
- **Reduced Impact on Municipal Resources:** Collecting and using rainwater on campus eases the demand on the city's water supply, which benefits the broader community. By harvesting rainwater, the university helps free up municipal water resources for other essential needs, supporting a more balanced distribution of water across Rajkot.
- **Public Health Improvement:** Rainwater harvesting contributes indirectly to public health. By reducing dependency on groundwater, it helps maintain groundwater levels, reducing the risk of water contamination. Access to cleaner, safer water reduces the prevalence of waterborne diseases in the surrounding community.

**3. Institutional Impact:**

- **Cost Savings and Resource Efficiency:** Rainwater harvesting can significantly reduce the university's water bills. This financial benefit allows for reallocating resources toward other green initiatives, research, and educational activities. The long-term savings contribute to the university's financial sustainability.
- **Enhanced Institutional Reputation:** By implementing rainwater harvesting, the university positions itself as an environmentally conscious institution. This commitment to sustainability can enhance the university's image, attracting students, faculty, and partners who value environmental responsibility.
- **Educational Value and Research Opportunities:** The system provides a hands-on learning opportunity for students, particularly those studying environmental science,

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**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





engineering, and sustainability. Rainwater harvesting projects offer a real-life platform for research, workshops, and practical training, helping students gain valuable skills in sustainable practices.


- **Compliance with Regulatory Standards:** Adopting rainwater harvesting aligns with environmental regulations and standards, positioning the university as compliant with local and national environmental policies. This alignment can be beneficial during audits and assessments, potentially granting the institution access to incentives or recognition programs.
- **Contribution to Green Campus Initiatives:** Rainwater harvesting is a foundational element of a broader green campus initiative, supporting other sustainability goals like waste management, energy conservation, and sustainable landscaping. This holistic approach can also provide a model for other institutions in Rajkot and beyond.

**Recommendations**

- **Rainwater Harvesting Expansion:** Install additional collection units to maximize water capture during the monsoon season.
- **Smart Metering:** Implement digital meters for real-time monitoring of water usage.
- **Awareness Campaigns:** Conduct workshops for students and staff on water conservation.

**Conclusion**

Atmiya University has made significant changes in water conservation, with key initiatives like rainwater harvesting and wastewater reuse. However, there is scope for improvement in utilisation and reuse the water through various points. Implementing the recommendations will enhance sustainability and ensure compliance with GPCB standards.

  
H. G. Sonkum  
Schedule - 1 Auditor








# Certificate

## Atmiya University, Rajkot

is committed to environmental stewardship by prioritizing water conservation and actively promoting sustainable practices.

Issued on: 03 May 2023

  
Mr. Hemantkumar Sonkusare

Civil Engineer, GPCB recognized Schedule-I Environmental Auditor

Green audit reports on water conservation – 2022-23



**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**ATMIYA  
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NAAC – Cycle – 1  
AISHE: U-0967

Criterion 7

I V & B P

KI 7.1

M 7.1.3

GREEN AUDIT REPORT FOR  
WATER CONSERVATION-2022-23  
At Atmiya University, Rajkot

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**



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### Atmiya University

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The University status is in recognition of the appreciable learning facilities and qualities of the 'Atmiya Group of Institutions' (AGI), which have demonstrated many milestones of growth and development.

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Water Management**

Water conservation is a key activity as water availability affects on the development of the campus as well as on all area of development such as farming, industries, etc. Keeping this view water conservation activity is carried out.

**Sources of Water**

- Rainwater Harvesting
- Bore water
- A Main source of water is RMC connection and Ground water is extracted to fulfill the requirement. The college stores the water in overhead tank.

**Daily water requirement is 91 KL**

**Sewage Disposal Facility**

Atmiya University is situated in the municipal area of Rajkot. RMC (Rajkot Municipal Corporation) provides municipal facilities to the university. Sewage is being disposed in the sewerage network of Rajkot city.

**RO Plant**

RO plants provide clean and safe drinking water by removing contaminants, such as bacteria, viruses, and dissolved solids, from the water. This ensures that students, faculty, and staff have access to safe drinking water, promoting better health and well-being. With access to clean drinking water on campus, there is less reliance on bottled water. This can lead to a significant reduction in plastic waste generated by the university, contributing to environmental sustainability efforts.

**Registrar**

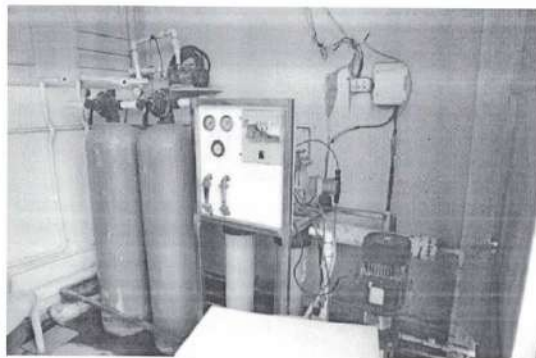
Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





Green Initiative: The RO (reverse osmosis) water is being used for the irrigation purpose in the garden of university.



**Reverse Osmosis Plant for Drinking Water**

**Rainwater Harvesting:**

**Capacity: 17 Lac Liters**

**Environmental Benefits:** By reducing the demand for potable water and minimizing storm water runoff, rainwater harvesting contributes to environmental conservation efforts. It helps preserve freshwater resources, protects aquatic ecosystems, and mitigates the impacts of urbanization on natural hydrological cycles.

**Water Conservation:** Rainwater harvesting reduces reliance on traditional water sources by collecting and storing rainwater for various uses, such as irrigation, flushing toilets, and landscape maintenance. This helps conserve freshwater resources and reduces the strain on municipal water supplies, especially during periods of drought or water scarcity.





**Rainwater Harvesting Tank**

**Water Usage in the Campus**

Basic use of water in campus	KL/Day
Drinking	14
Gardening	16
Kitchen and Toilets	19
Others	14
Hostel	28
<b>Total</b>	<b>91 KL/Day</b>





**Description of Water Storage Tank**

Building	SN	Tank Description	Size (litre)	No. of Tank	Capacity (litre)
AU Building	1	Raw Water- A Wing	2500	4	10000
	2	Raw Water- B Wing	2500	4	10000
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	4	RO Water (A Wing-2, B Wing-2, RO-3)	2500	7	17500
	5	Pharmacy and Mechanical Lab	2000	1	2000
	6	Faculty Block (A& B Wing)	2500	2	5000
	7	Library Terrace	2000	1	2000
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**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





Building	SN	Tank Description	Size (litre)	No. of Tank	Capacity (litre)
	26	Wastewater- Outside the Building	2000	1	2000
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<b>Total Water Storage Capacity</b>					<b>28,41,060</b>

**Rain water harvesting for the year 2022-23**

Month	Water Collected (litre)	Water Used (liters)
June	5,47,600	5,15,000
July	9,67,800	9,60,700
August	10,60,470	8,70,800
September	11,50,340	10,30,750
October	5,45,700	5,10,000
November	00	3,84,660





**Ground Water recharge Bore well**

The excess rainwater beyond the capacity of rain water storage tank is channelized to bore-well for ground water recharge.

**Calculation of rainwater harvesting at Atmiya University**

SN	Building	Roof Area (m <sup>2</sup> )
1	AU Main Building	8225.00
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<b>Total</b>		<b>14,325 m<sup>2</sup></b>

Rainfall in the Rajkot city: 966.33 mm

Runoff coefficient for concrete= 0.75

Total Water conserved = rainfall \* runoff coefficient \* roof area  
= 0.9663 \* 0.75 \* 14325  
= 10381.6856 m<sup>3</sup>  
= 1,03,81,686 liters

**Note:**-Rainfall data taken from Rajkot municipal corporation official website and Runoff coefficient taken 0-1 ranges rough to smooth surface.





**Impact: Social and Institutional**

**1. Building Construction with harvested water:**

- 175 lack liter water was utilized from harvested source for the under-construction Multipurpose Building.

**2. Social Impact:**

- **Water Conservation Awareness:** Implementing rainwater harvesting raises awareness among students, faculty, and the community about sustainable water management. It serves as an educational tool, encouraging environmentally responsible behaviour.
- **Enhanced Water Security:** Rajkot, like many areas, faces water scarcity, particularly during dry seasons. Rainwater harvesting contributes to local water security, helping the university reduce its reliance on municipal or external water supplies. This leads to a more self-sufficient water supply system, directly benefiting the university community.
- **Reduced Impact on Municipal Resources:** Collecting and using rainwater on campus eases the demand on the city's water supply, which benefits the broader community. By harvesting rainwater, the university helps free up municipal water resources for other essential needs, supporting a more balanced distribution of water across Rajkot.
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**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**







engineering, and sustainability. Rainwater harvesting projects offer a real-life platform for research, workshops, and practical training, helping students gain valuable skills in sustainable practices.


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### Recommendations

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### Conclusion

Atmiya University has made significant efforts in water conservation, with key initiatives like rainwater harvesting and wastewater reuse. However, there is scope for improvement in optimizing consumption and awareness. Implementing the recommendations will enhance sustainability as a whole.

  
 H. G. Sonkulan  
 Dy. Head - J Audit







**ATMIYA  
UNIVERSITY**

NAAC – Cycle – 1  
AISHE: U-0967

Criterion 7

I V & B P

KI 7.1

M 7.1.3

# Certificate

## Atmiya University, Rajkot

remains devoted to environmental stewardship by embracing water conservation and promoting sustainability initiatives.

Issued on: 08 June 2024

Mr. Hemantkumar Sonkusare  
Civil Engineer, GPCB recognized Schedule-I Environmental Auditor

Green audit reports on water conservation – 2023-24

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**



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**ATMIYA  
UNIVERSITY**

**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion 7**

**I V & B P**

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**GREEN AUDIT REPORT FOR  
WATER CONSERVATION  
2023-24**

At Atmiya University, Rajkot

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**



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**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Water Management**

Water conservation is a key activity as water availability affects on the development of the campus as well as on all area of development such as farming, industries, etc. Keeping this view water conservation activity is carried out.

**Sources of Water**

- Rainwater Harvesting
- Bore water
- A Main source of water is RMC connection and Ground water is extracted to fulfill the requirement. The college stores the water in overhead tank.

**Daily water requirement is 96 KL**

**Sewage Disposal Facility**

Atmiya University is situated in the municipal area of Rajkot. RMC (Rajkot Municipal Corporation) provides municipal facilities to the university. Sewage is being disposed in the sewerage network of Rajkot city.

**RO Plant**

RO plants provide clean and safe drinking water by removing contaminants, such as bacteria, viruses, and dissolved solids, from the water. This ensures that students, faculty, and staff have access to safe drinking water, promoting better health and well-being. With access to clean drinking water on campus, there is less reliance on bottled water. This can lead to a significant reduction in plastic waste generated by the university, contributing to environmental sustainability efforts.

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**Green Initiative:** The RO (reverse osmosis) water is being used for the irrigation purpose in the garden of university.



**Reverse Osmosis Plant for Drinking Water**

**Rainwater Harvesting:**

**Capacity: 17 Lac Liters**

**Environmental Benefits:** By reducing the demand for potable water and minimizing storm water runoff, rainwater harvesting contributes to environmental conservation efforts. It helps preserve freshwater resources, protects aquatic ecosystems, and mitigates the impacts of urbanization on natural hydrological cycles.

**Water Conservation:** Rainwater harvesting reduces reliance on traditional water sources by collecting and storing rainwater for various uses, such as irrigation, flushing toilets, and landscape maintenance. This helps conserve freshwater resources and reduces the strain on municipal water supplies, especially during periods of drought or water scarcity.



Rainwater Harvesting Tank





**Water Usage in the Campus**

Basic use of water in campus	KL/Day
Drinking	15
Gardening	17
Kitchen and Toilets	20
Others	15
Hostel	29
<b>Total</b>	<b>96 KL/Day</b>

**Description of Water Storage Tank**

Building	SN	Tank Description	Size (litre)	No. of Tank	Capacity (litre)
AU Building	1	Raw Water- A Wing	2500	4	10000
	2	Raw Water- B Wing	2500	4	10000
	3	Master RO - Raw Water	5000	3	15000
	4	RO Water (A Wing-2, B Wing-2, RO-3)	2500	7	17500
	5	Pharmacy and Mechanical Lab	2000	1	2000
	6	Faculty Block (A& B Wing)	2500	2	5000
	7	Library Terrace	2000	1	2000
	8	<b>Raw Water Near AU Building- Underground</b>	275000	1	275000
MPAB	9	RO Water - at Terrace	2000	2	4000
	10	Raw Water- at Terrace	60000	1	60000
	11	Raw Water- at Terrace	40000	7	280000
	12	<b>Near Building- Underground</b>	333746	2	667492
	13	<b>Near Building- Underground</b>	336826	2	673652
	14	<b>Below Temple- Underground</b>	189924	1	189924
	15	<b>Below Temple- Underground</b>	43718	1	43718







Building	SN	Tank Description	Size (litre)	No. of Tank	Capacity (litre)
	16	In Front of Store-Underground	123604	1	123604
Workshop	17	RO Water- at Terrace	2000	1	2000
	18	Raw Water- at Terrace	2000	2	4000
	19	Raw Water- at Terrace	5000	1	5000
	20	Behind Workshop- Round Tank- Underground	45650	1	45650
Science Building	21	RO Water- at Terrace	2500	1	2500
	22	Raw Water Tank- at Terrace	23300	2	46600
	23	Raw Water Tank- Ladies Toilet	30000	3	90000
	24	CIF Lab	1500	1	1500
	25	Raw Water- OTIS-Underground	32620	1	32620
	26	Wastewater- Outside the Building	2000	1	2000
Yogidham Gate	27	Raw Water Tank- Underground	48750	4	195000
Niramay	28	RO Water Tank at Terrace	2500	1	2500
	29	Raw Water Tank- at Terrace	11650	1	11650
	30	Raw Water Tank- Near Office	5000	2	10000
Sarvanaman	31	Raw Water Tank- at Terrace	2000	1	2000
	32	Raw Water Tank- at Terrace	8550	1	8550
	33	Raw Water- inside building	600	1	600
<b>Total Water Storage Capacity</b>					<b>28,41,060</b>

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**Rain water harvesting for the year 2023-24**

Month	Water Collected (liters)	Water Used (liters)
June	6,30,500	5,42,000
July	11,60,340	11,50,700
August	11,80,600	8,60,800
September	10,50,600	9,90,750
October	3,40,500	4,10,000
November	00	5,88,290

**Ground Water recharge Bore well**

The excess rainwater beyond the capacity of rain water storage tank is channelized to bore-well for ground water recharge.

**Calculation of rainwater harvesting at Atmiya University**

SN	Building	Roof Area (m <sup>2</sup> )
1	AU Main Building	8225.00
2	Multipurpose Academic Building	2050
3	Workshop	1650
4	Science Building	2400
<b>Total</b>		<b>14,325 m<sup>2</sup></b>

Rainfall in the Rajkot city: 651 mm

Runoff coefficient for concrete= 0.75

$$\begin{aligned} \text{Total Water conserved} &= \text{rainfall} * \text{runoff coefficient} * \text{roof area} \\ &= 0.658 * 0.75 * 14325 \\ &= 7069.3875 \text{ m}^3 \\ &= \mathbf{7069387 \text{ liters}} \end{aligned}$$

Note:-Rainfall data taken from Rajkot municipal corporation official website and Runoff coefficient taken 0-1 ranges rough to smooth surface.





**Impact: Social and Institutional**

**1. Building Construction with harvested water:**

- 150 lack liter water was utilized from harvested source for the under-construction Multipurpose Building.

**2. Social Impact:**

- **Water Conservation Awareness:** Implementing rainwater harvesting raises awareness among students, faculty, and the community about sustainable water management. It serves as an educational tool, encouraging environmentally responsible behaviour.
- **Enhanced Water Security:** Rajkot, like many areas, faces water scarcity, particularly during dry seasons. Rainwater harvesting contributes to local water security, helping the university reduce its reliance on municipal or external water supplies. This leads to a more self-sufficient water supply system, directly benefiting the university community.
- **Reduced Impact on Municipal Resources:** Collecting and using rainwater on campus eases the demand on the city's water supply, which benefits the broader community. By harvesting rainwater, the university helps free up municipal water resources for other essential needs, supporting a more balanced distribution of water across Rajkot.
- **Public Health Improvement:** Rainwater harvesting contributes indirectly to public health. By reducing dependency on groundwater, it helps maintain groundwater levels, reducing the risk of water contamination. Access to cleaner, safer water reduces the prevalence of waterborne diseases in the surrounding community.

**3. Institutional Impact:**

- **Cost Savings and Resource Efficiency:** Rainwater harvesting can significantly reduce the university's water bills. This financial benefit allows for reallocating resources toward other green initiatives, research, and educational activities. The long-term savings contribute to the university's financial sustainability.
- **Enhanced Institutional Reputation:** By implementing rainwater harvesting, the university positions itself as an environmentally conscious institution. This commitment to sustainability can enhance the university's image, attracting students, faculty, and partners who value environmental responsibility.






- **Educational Value and Research Opportunities:** The system provides a hands-on learning opportunity for students, particularly those studying environmental science, engineering, and sustainability. Rainwater harvesting projects offer a real-life platform for research, workshops, and practical training, helping students gain valuable skills in sustainable practices.
- **Compliance with Regulatory Standards:** Adopting rainwater harvesting aligns with environmental regulations and standards, positioning the university as compliant with local and national environmental policies. This alignment can be beneficial during audits and assessments, potentially granting the institution access to incentives or recognition programs.
- **Contribution to Green Campus Initiatives:** Rainwater harvesting is a foundational element of a broader green campus initiative, supporting other sustainability goals like waste management, energy conservation, and sustainable landscaping. This holistic approach can also provide a model for other institutions in Rajkot and beyond.

**Recommendations**

- **Rainwater Harvesting Expansion:** Install additional collection units to maximize water capture during the monsoon season.
- **Smart Metering:** Implement digital meters for real-time monitoring of water usage.
- **Awareness Campaigns:** Conduct workshops for students and staff on water conservation.

**Conclusion**

Atmiya University has made significant strides in water conservation, with key initiatives like rainwater harvesting and wastewater reuse. However, there is scope for improvement in optimizing consumption and addressing inefficiencies. Implementing the recommendations will enhance sustainability and ensure compliance with GPCB standards.

  
Dr. H. G. Sonkum  
Schedule-1 Auditor







**1.4 GREEN/ ENVIRONMENT AUDIT 2019-20**

**CLIENT: M/s. Atmiya University, Rajkot  
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(Audit Period: June 2019 to May 2020)**

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## 1) Executive Summary

Atmiya University established on April 13, 2018, under the Gujarat Private University Act 11, 2018, ATMIYA University emphasizes to train young minds in consonance with the doctrines of higher education and human values. The aim of this University is to spread eternal happiness and to create a happy society in letter and spirit. The motto “सुहृदंसर्वभूतानम्” (Suhardam Sarva Bhootanam) is an expression of willingness to attain harmony with each creation of the Almighty!

This environmental audit report provides a comprehensive overview of Atmiya University, located in the vibrant city of Rajkot, Gujarat. Atmiya University, a prominent educational institution in the region, serves as a dynamic center for higher education, offering a diverse range of undergraduate, postgraduate, and doctoral programs. Established with a vision ‘To nurture creative thinkers and leaders through transformative learning’ and committed to create a transformative learning experience by imbibing domain specific knowledge & wisdom and to focus on research based teaching learning with Industry relevant application knowledge. The university plays a crucial role in shaping the region’s educational landscape.

Situated in an urban setting, Atmiya University benefits from excellent connectivity and accessibility within the Rajkot area. The campus spans approximately 23.5 acre and features modern infrastructure that includes state-of-the-art classrooms, research labs, libraries, recreational facilities, and green spaces that enhance the learning environment.

The university accommodates a diverse and vibrant community from various parts of India and beyond. This thriving student body is supported by a faculty dedicated to promoting sustainable practices on campus, aligning with Atmiya University’s mission to minimize its environmental impact.

A satellite image of the campus highlights its strategic layout and showcases the integration of natural and built environments, offering a visual perspective on the university’s physical footprint within the urban landscape. This audit aims to evaluate Atmiya University’s environmental practices and suggest actionable steps to enhance sustainability, further aligning with global standards in environmental responsibility and conservation.



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**2) Acknowledgment**

On behalf of the Environmental Audit & Consultancy Cell at **V.V.P. Engineering College, Rajkot**, we would like to express our sincere gratitude to the management of **Atmiya University, Rajkot** for entrusting us with the important task of conducting their Environmental Audit/Green Audit.

We deeply appreciate the cooperation extended by your team throughout the assessment process. This cooperation was instrumental in the successful completion of the audit.

We would also like to extend our special thanks to **Dr. Ashish Kothari, Deputy Registrar, Atmiya University** for their unwavering support. Their dedication proved to be invaluable in ensuring the project's completion. Finally, we thank all other staff members who actively participated in data collection and field measurements. Their contributions were essential to the smooth execution of the audit.

We are also thankful to:

SN	Name	Designation
1	Er. Ravi S. Tank	Chemical Engineer
2	Dr.Hemantkumar G. Sonkusare	Civil Engineer
3	Dr. Anilkumar S. Patel	Chemist

In closing, we would like to express our gratitude to **Dr.Santhanakrishnan Pillai, Vice Chancellor, Atmiya University** for extending the opportunity to evaluate their esteemed campus's environmental performance.

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**3) Disclaimer**

This Green Audit report has been prepared by the Environmental Audit Cell at V.V.P. Engineering College, Rajkot for of Atmiya University, Rajkot. It incorporates data submitted by University officials/representatives along with expert analysis by the EA&CC Audit team.

While all reasonable efforts have been made to ensure its accuracy, the report is based on information gathered in good faith. Conclusions are based on best estimates and do not constitute any express or implied warranty or undertaking. The EA&CC at Atmiya University, Rajkot assumes no responsibility for any direct or consequential loss arising from the use of the information, statements, or forecasts in this report.

The findings presented in this report are based entirely on data provided by Atmiya University and gathered by the audit team during their audit & monitoring visit. It assumes normal operating conditions within the institution throughout the audit period. The auditors are unable to comment on environmental audit parameters outside the scope of the on-site surveys. Consequently, the report's findings are strictly limited to the timeframe during which the audit team conducted its assessment.

The Environment Audit Cell at V.V.P. Engineering College, Rajkot, maintains strict confidentiality regarding all information pertaining to Atmiya University. No such information will be disclosed to any third party except public domain knowledge or when required by law or relevant accreditation bodies.

This certificate is valid solely for the current Environmental Audit/Green Audit report. It may be automatically revoked if any significant changes occur in the quantity or quality of waste generation at the aforementioned institute.

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**4) Introduction**

Since the 2019-20 academic year, the National Assessment and Accreditation Council (NAAC) requires all Higher Educational Institutions (HEIs) to submit an annual Environmental Audit/Green Audit report. This requirement falls under Criterion 7 of the NAAC accreditation process, which evaluates institutions for their environmental sustainability practices. NAAC, an autonomous body in India, assigns accreditation grades (A, B, or C) based on various criteria, including environmental stewardship.

Furthermore, conducting Environmental Audit/Green Audits aligns with the Corporate Social Responsibility (CSR) initiatives of HEIs. By implementing measures to reduce their carbon footprint, institutions contribute positively to mitigating global warming.

In response to the NAAC mandate, the University management opted for an external Environmental Audit/Green Audit conducted by a qualified professional auditor.

Environmental Audit/Green Audit entails a comprehensive environmental assessment, examining both on-campus and off-campus practices that directly or indirectly impact the environment. In essence, it is a systematic process of identifying, quantifying, recording, reporting, and analysing environmental aspects within the institute setting.

Environmental Audit/Green Audits originated as a tool to evaluate institutional activities that might pose risks to human health and the environment. It provides valuable insights for improvement, guiding institutions towards environmentally responsible practices and infrastructure.

The specific areas covered by this audit include Green Campus initiatives, Waste Management, Water Management, Air Pollution Control, Energy Management, and Carbon Footprint reduction strategies employed by the University.

The following sections delve deeper into the concept, structure, objectives, methodology, analytical tools, and overall goals of this Green Audit.

Educational institutions are increasingly prioritizing environmental concerns. As a result, innovative concepts are emerging to make campuses more sustainable and eco-friendly. Numerous institutions are adopting various approaches to address environmental challenges within their facilities, such as promoting

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energy conservation, waste recycling, water use reduction, and rainwater harvesting.

The activities of educational institutions can have both positive and negative environmental impacts. A Green Audit is a formal evaluation process that assesses the University's environmental footprint. It provides a comprehensive picture of the current environmental conditions on campus.

Green Audits are a valuable tool for University to identify areas of high energy, water, or resource consumption. This allows institutions to implement targeted changes and achieve cost savings. Additionally, Green Audits can analyse the nature and volume of waste generated, leading to improved recycling programs or waste minimization plans.

Green auditing and the implementation of mitigation measures offer a win-win scenario for institutions, students, and the environment. It can foster health and environmental awareness, promoting values and beliefs that benefit everyone. Green Audits also provide an opportunity for staff and students to gain a deeper understanding of the impact their institution has on the environment.

Furthermore, Green Audits can translate into financial savings by encouraging a reduction in resource usage. This process also empowers students and teachers to develop a sense of ownership for personal and social environmental responsibility.

The Green Audit process typically involves collecting primary data, conducting a site visit with University representatives, and reviewing relevant policies, activities, documents, and records.

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**OBJECTIVE AND SCOPE**

The broad aims/benefits of the Environmental Audit/Green Audit would be

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Sustainable use of natural resource in the campus.
- Financial savings 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
- Enhancement of University profile
- Developing an environmental ethic and value systems in young people

**Outcomes OF ENVIRONMENT AUDIT TO EDUCATIONAL INSTITUTIONS**

There are many advantages of environment audit to an Educational Institute:

1. Protect the environment in and around the campus.
2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Empower the organization to frame a better environmental performance.
4. Portrays good image of institution through its clean and green campus.

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## 5) Environmental Policy



# ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act II, 2016)  
Yogidham Gurukul, Kalawad Road, Rajkot - 360003, Gujarat (INDIA)

### Environment and Sustainability Policy for Green Campus

Atmiya University recognizes the critical importance of environmental sustainability and its role in minimizing ecological footprints. Guided by its commitment to the principles of conservation and harmony with nature, the university adopts this Policy to integrate environmental awareness and sustainable practices into its daily academic and administrative operations, education, and community engagement. This policy reflects the university's dedication to fostering a sustainable future.

#### Objective

Atmiya University strives to establish a clean, green, and sustainable campus by:

- Developing, monitoring, and evaluating a policy to guide green campus initiatives.
- Reducing the ecological footprint through sustainable practices.
- Educating students and staff on environmental issues and on building harmony with nature & mother earth to create a healthier, sustainable future.
- Promoting innovative environmental practices to enhance sustainability performance.
- Strengthening an environmentally responsible culture across curricular and extracurricular activities.
- Addressing local and regional environmental challenges with sustainable solutions.
- Ensuring sustainable resource use and minimizing wasteful practices.
- Protecting biodiversity and reducing environmental pollution.

#### Environmental Goals and Targets

The university sets specific goals such as reducing energy consumption, minimizing waste generation, conserving water, managing/recycling/disposal of waste, and promoting biodiversity to enhance its sustainability initiatives.

#### Key Focus Areas

1. **Clean Campus Initiatives:** Regular cleaning drives, waste segregation, and beautification projects.



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2. **Green Energy:** Installing renewable energy sources to reduce dependency on non-renewable energy sources.
3. **Landscaping and Biodiversity:** Developing green spaces, planting neem trees, and conserving biodiversity.
4. **Energy Efficiency:** Installing energy-efficient appliances, natural lighting, and ventilation.
5. **Water Conservation:** Using rainwater harvesting systems, low-flow fixtures, and RO wastewater recycling.
6. **Waste Management:** Segregating solid, liquid, e-waste, and bio-waste for recycling and composting.
7. **Transportation and Mobility:** Promoting biking, carpooling, e-vehicles, and public transit.
8. **Green Building Standards:** Incorporating eco-friendly designs in construction and renovation projects.
9. **Curriculum Integration:** Courses on SDG awareness and environmental science across all disciplines.
10. **Community Engagement:** Conducting workshops, seminars, and outreach programs on environmental topics.

### Key Practices

#### 1. Energy Efficiency

- Transition to energy-efficient devices and systems.
- Encourage behaviour changes for energy conservation.
- Promote renewable energy solutions like solar and biogas.

#### 2. Waste Management and Recycling

- Comprehensive waste management with dedicated recycling and composting units.
- Initiatives like Parivartan (Paper Recycling Unit) and Sarjan (Agricultural Waste Recycling Unit) to create sustainable products.

#### 3. Water Conservation

- Installation of rainwater harvesting systems and reservoirs with a 17 lakh-litre capacity.
- Xeriscaping and responsible water usage to reduce dependency on municipal water.

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### 4. Biodiversity and Green Spaces

- Develop gardens, tree plantations, and outdoor educational spaces to promote biodiversity.
- Integrate sustainable farming practices using Panchgavya and Jivamrut fertilizers.

### 5. Transportation and Mobility

- Establish e-vehicle charging stations, bike racks, and pedestrian-friendly paths.

### 6. Education and Awareness

- Organize campaigns like Use Solar-Save Nature, Save Energy-Water and tree plantation drives.
- Include sustainability topics in the curriculum to foster awareness and innovation.

### Implementation and Monitoring

- **Incentives and Recognition:** Reward active participants in sustainability efforts.
- **Budget and Funding:** Allocate resources for projects and seek grants for sustainability initiatives.
- **Compliance and Legal Adherence:** Ensure alignment with relevant environmental laws and regulations.
- **Periodic Review:** Monitor the policy's impact and revise based on feedback and emerging challenges.

### Conclusion

Adopting this Policy highlights Atmiya University's unwavering commitment to environmental stewardship and sustainable development. By fostering a culture of awareness and proactive participation, the university aspires to create a greener and healthier campus, setting a benchmark for future generations. Together, we will build a resilient and sustainable future.



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**6) General Information**

- Does any Green Audit conducted earlier? Yes
- Total Area of the University = 84455 m<sup>2</sup>
- What is the total strength (people count) of the Institute?

AY	Students			Teaching Staff			Non-Teaching Staff			Total		
	M	F	Trans	M	F	Trans	M	F	Trans	M	F	Trans
2019-2020	2477	1445	0	166	67	0	188	16	0	2831	1528	0

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

Month (AY- 2019-2020)	No. of Working Days
June	25
July	27
August	21
September	24
October	19
November	21
December	25
January	26
February	24
March	19
April	26
May	26
<b>Total</b>	<b>283</b>

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**e. Which of the following are found near your institute?**

Municipal dump yard	No
Garbage heap	No
Public convenience	Yes
Sewer line	Yes
Stagnant water	No
Industry	No
Bus / Railway station	Yes
Market / Shopping complex	Yes
Play Ground	Yes

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

Type of waste		Response	Detail(s) of Waste Generated	Quantity of Waste Generated (kg)
Solid	Biodegradable	Yes	Gardening, Cow dung	175
	Non-biodegradable	Yes	Sweeping waste,	10
	e-waste	Yes	Computer, Battery	00
Liquid		Yes	Kitchen Waste	35
Gas		No	--	--

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

- Composting: Gardening and cow dung waste used to make compost.
- Non-recyclable and non-biodegradable waste disposal is managed by the Rajkot Municipal Corporation.

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h. Do you use recycled paper in institute? Yes

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

Poster competition activities	<b>Yes</b>
Campaigns	<b>Yes</b>
Webinars and seminars	<b>Yes</b>

j. Is there a garden in your institute?

<b>Garden</b>	<b>Yes</b>	<b>Area = 6732.26m<sup>2</sup></b>
---------------	------------	------------------------------------

k. Total number of Plants in Campus?

SN	Named Species	Numbers
1	Neem Tree	211
2	Lemon cypress	1
3	FicusMicrocapra	100
4	Hedge Plant	01
5	Tajplantshub dracaena	01
6	Crown of Thrones	01
7	Spanish Moss (TilandsiaUsneoides)	10
8	Ruellia simplex	51
9	FagusSylvatica plant	01
10	Euphorbia Tithymaloides	11
11	Weeping Fig	685
12	LysilomaWatsonil	01
13	Royal Palm	38
14	Bamboo	230
15	Moringa	01
16	Acalyphawilkesiana	300
17	Dracaena Angustifolia	11
18	Polysciasscutellaria	04
19	<u>Cordylinefruticosa</u>	40
20	Dracaena Reflexa	500



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21	Garden Croton	01
22	polysciasguilfoylei	10
23	Oyster Plant (tradescantiazebrina)	300
24	Lonicera pileata	50
25	Saribus rotundifolius	10
26	Ixora	10
27	Hyophorbelagenicaulis	20
28	Purple heart	150
29	Yellow cosmos (sulphur cosmos)	100
30	Canna discolor	15
31	Duranta erecta	1100
32	Pritchardia pacifica	11
33	Capparis sandwichiana	50
34	Nerium Oleander	10
35	Casuarina equisetifolia	20
36	Caryotaurens	2
37	Areca palm	20
38	Ravenala	10
39	Iresine herbstii	300
40	Sago Palm	22
41	Sphgneticolatrilobata	1500
42	Thuja	24
43	Dracaena trifasciata	62
44	Ponytail Palm	2
45	Asparagus densiflorus	50
46	Alocasiazebrina	02
47	Bismarck palm	8
49	Lotus	100
50	Catharanthus	50
51	Padavati Jasmin	50
52	Caryotamitis	04



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53	Monoonlongifolium	3
54	Breyniadisticha	50
55	PlumeriaObtusa	10
56	Alovera	100
57	Century Plant	30
58	Sweet osmanthus	1
59	Crinum asiaticum	27
60	Diantherapectoralis	200
61	Hibiscus	10
62	Ficusaspera	5
63	Mulberry tree	10
64	Barbary fig	5
65	Dracaena angolensis	2
66	Terminaliachebula plant	2
67	Nettlespurges	2
68	Yellow elder	2
69	MadhucaLongifolia	2
70	Eucalyptus globulus.	1
71	Melicoccusbijugatus	1
72	Casuarinaequisetifolia	1
73	Indian jujube	5
74	Tulsi	50
75	Coconut palm tree	8
76	Calotropisgigantea	1
77	Persian Silk	5
78	Mango tree	1
79	Curry Tree	4
80	Punicagranatum	5
81	Pandanusveitchii	50
82	Streblusasper	5
<b>Total</b>		<b>6859</b>



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**I. List uses of water in your institute**

<b>Basic use of water in campus</b>	<b>KL/Day</b>
Drinking	9K
Gardening	15K
Kitchen and Toilets	12K
Others	09 K
Hostel	18K
<b>Total</b>	<b>63 KL/Day</b>

**m. Electricity Consumed**

<b>Month (Academic Year 2019-2020)</b>	<b>Electricity Consumed (kWh)</b>
June	1,37,991
July	1,83,820
August	1,98,594
September	1,74,244
October	1,80,766
November	1,23,820
December	1,22,634
January	99,310
February	1,15,243
March	1,28,800
April	97,727
May	1,02,021
<b>Total</b>	<b>16,64,970</b>

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

Building	SN	Tank Description	Size (liter)	No. of Tank	Capacity (liter)
AU Building	1	Raw Water- A Wing	2500	4	10000
	2	Raw Water- B Wing	2500	4	10000
	3	Master RO - Raw Water	5000	3	15000
	4	RO Water Tank	2500	7	17500
	5	Pharmacy and Mechanical Lab	2000	1	2000
	6	Faculty Block (A& B Wing)	2500	2	5000
	7	Library Terrace	2000	1	2000
	8	Raw Water Near AU Building- Underground	275000	1	275000
MPAB	9	RO Water - at Terrace	2000	2	4000
	10	Raw Water- at Terrace	60000	1	60000
	11	Raw Water- at Terrace	40000	7	280000
	12	Near Building- Underground	333746	2	667492
	13	Near Building- Underground	336826	2	673652
	14	Below Temple- Underground	189924	1	189924
	15	Below Temple- Underground	43718	1	43718
	16	In Front of Store- Underground	123604	1	123604

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Workshop	17	RO Water- at Terrace	2000	1	2000
	18	Raw Water- at Terrace	2000	2	4000
	19	Raw Warer- at Terrace	5000	1	5000
	20	Behind Workshop- Round Tank- Underground	45650	1	45650
Science Building	21	RO Water- at Terrace	2500	1	2500
	22	Raw Water Tank- at Terrace	23300	2	46600
	23	Raw Water Tank- Ladies Toilet	30000	3	90000
	24	CIF Lab	1500	1	1500
	25	Raw Water- OTIS- Underground	32620	1	32620
	26	Wastewater- Outside the Building	2000	1	2000
Yogidham Gate	27	Raw Water Tank- Underground	48750	4	195000
Niramay	28	RO Water Tanki at Terrace	2500	1	2500
	29	Raw Water Tank- at Terrace	11650	1	11650
	30	Raw Water Tank- Near Office	5000	2	10000
Sarva naman	31	Raw Water Tank- at Terrace	2000	1	2000
	32	Raw Water Tank- at Terrace	8550	1	8550
	33	Raw Water- inside building	600	1	600
<b>Total Water Storage Capacity</b>					<b>28,41,060</b>

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**7) Green Initiatives By the Institute**

**Green Architecture**

The incorporation of green architecture principles in academic institutions not only reduces environmental impact but also fosters a healthier and more inspiring learning environment for students and faculty alike. By integrating features such as passive solar design, natural ventilation, and green roofs, these institutions showcase a commitment to sustainability while promoting innovation and awareness of eco-friendly design practices within the academic community.



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**Natural Light and Ventilation in Academic Building**

**Impact:**

- Low artificial lighting requirements
- Energy consumption optimization
- Low green house gas emission
- Low level of strain to Eyes

**Campus Biodiversity**

A thriving campus biodiversity in academic institutions is not merely a reflection of ecological health but also serves as a testament to the institution's commitment to sustainability and environmental stewardship. It provides a living laboratory for students to engage with nature firsthand, fostering a deeper understanding of ecological systems and instilling a sense of responsibility towards conservation. Beyond its educational value, a biodiverse campus offers numerous benefits such as improved air and water quality, enhanced aesthetics, and increased resilience to environmental stressors. It becomes a sanctuary for wildlife, contributing to the preservation of local

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ecosystems and biodiversity at large. Atmiya University campus is a rich in the biodiversity with the full of greenery and in house terrace garden.



Glimpse of Flora at University Campus

#### Gaushala at Campus

- 8 Indian Breed Cow
- 01 Bull
- State of the art facilities
- Value addition cow urine for herbal and fertilizer utilization
- Decorative products are being made from the cow dung.
- Jivamrut fertilizer being used in the campus is a product of gaushala.
- It contributes to maintain the organic carbon content in the campus soil as it provides the raw material for the compost.

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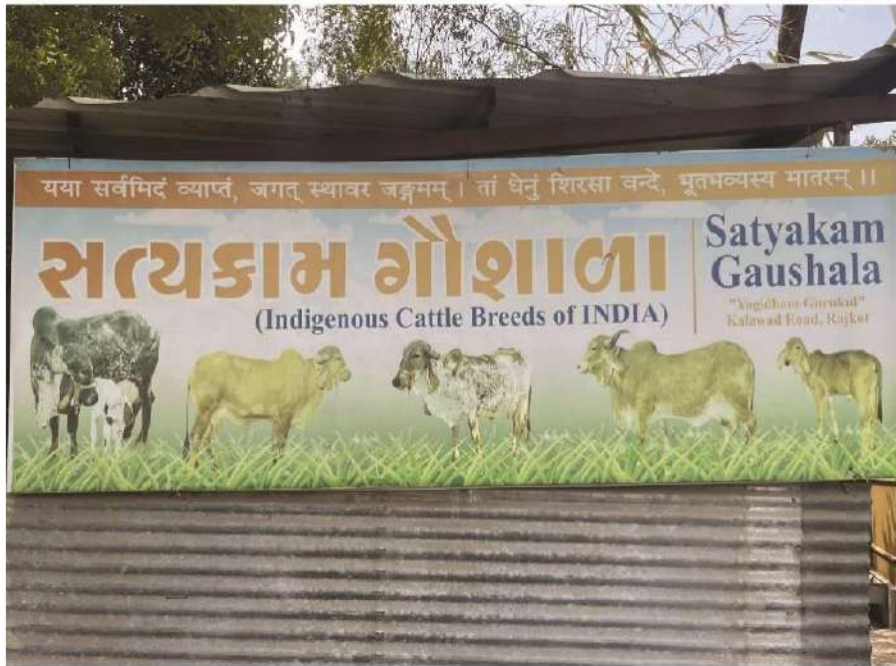
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Satyakam Gaushala

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It provides students with firsthand experience in animal care, veterinary science, and sustainable agriculture. They can learn about the importance of cows in Indian culture, their significance in agriculture, and sustainable farming practices.

Gaushalas contributes to the eco-friendly practices like composting cow dung for fertilizer, using biogas for cooking which can serve as models for sustainable living and agriculture.

In Indian cultures, cows are revered as sacred animals. Having a gaushala on campus can help preserve and promote this cultural heritage among students and the community.

Universities can conduct research on various aspects of cow rearing, including breeding, nutrition, and healthcare. This research can contribute to advancements in animal science and agriculture.

Cows play a crucial role in maintaining soil fertility through their dung, which is rich in nutrients. By managing cow waste effectively, gaushalas can contribute to soil health and environmental conservation.

#### **Solid Waste Management**

##### **Natural Fertilizer from Organic Waste**

##### **Jivamrut (Natural Fertilizer)**

Installation Detail:

- Year: 2008
- Place: at boys parking
- Process: Collect neem leaves form campus and added with cow dung, cow urine and Earthworms

##### **Amrut Soil**

- Ingredients for AmrutMitti range from cow dung, cow urine, biomass like dry and decayed leaves, household kitchen waste like vegetable peels.
- AmrutSoil is full of all nutrients needed by plants, is very rich in variety of microbes, has the right pH, has high carbon content, has excellent water holding capacity.
- Mixing Cow dung, cow urine and jaggery
- Immersing dry biomass in AmrutJal kept in drums
- Process take at least 1 month
- Use as garden fertilizer.



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**Impact:**

- Applied in garden as fertilizer
- Improve soil micro-biota of campus soil
- Less usages of chemical fertilizer



Amrut Soil and Jivamrut Plant





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**Municipal Solid Waste Segregation Bin**



**Separate Dustbin for Recyclable and Non-Recyclable Waste**

University campus having more the 100 solid waste collection dustbin design for the proper waste segregation. Waste paper is recycled at the in-house paper recycling facility and converted into the filter paper, envelope and other artistic and decorative products.

Having separate bins encourages people to sort their waste, making it easier to recycle materials such as paper, plastic, glass, and metal. This promotes a culture of recycling and reduces the amount of waste sent to landfills or incinerators.

Recycling materials reduces the need for raw materials, energy, and water required to manufacture new products. This conserves natural resources and reduces the environmental impact associated with extraction, processing, and transportation.

Implementing separate bins provides an opportunity for educational initiatives on waste management, recycling, and environmental stewardship. Students, faculty, and staff can learn about the importance of recycling and how their actions contribute to sustainability.

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**Paper Recycling Unit**

In embracing the principles of the circular economy, Atmiya university is pioneer in sustainable practices such as paper recycling, ensuring that resources are reused and regenerated rather than disposed of after single use. By implementing robust paper recycling programs, these institutes not only reduce waste and environmental impact but also cultivate a culture of resource efficiency and responsible consumption among students, faculty, and staff.

Recycling paper can lead to cost savings for the university by reducing waste disposal fees and the need to purchase new paper products. This can free up financial resources that can be allocated to other campus initiatives or projects.



**arivartan- Paper Recycling Plant**

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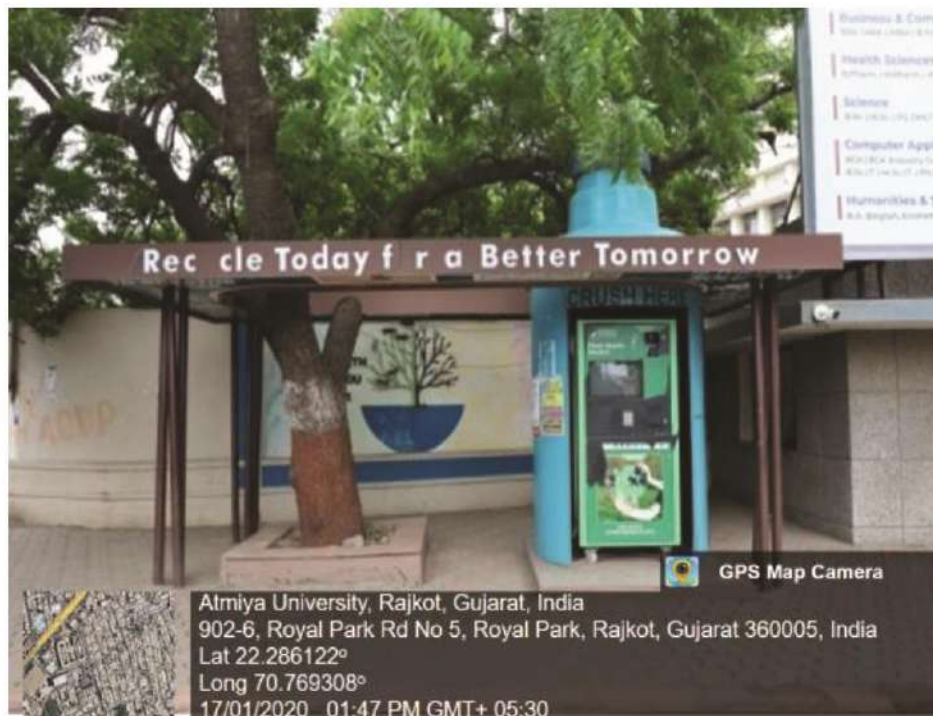
**Plastic Water Bottle Recycling Plant**

University have installed water bottle recycling plant at entrance for all stakeholders having capacity of 20 kg/day

A bottle crusher helps reduce the volume of plastic bottles, thereby decreasing the amount of plastic waste generated on campus. This contributes to waste reduction efforts and helps minimize the environmental impact of plastic pollution.

By providing a convenient way to crush plastic bottles, the crusher encourages recycling behavior among students, faculty, and staff. It reinforces the importance of recycling and helps divert plastic waste from landfills or incinerators.

Plastic pollution poses significant threats to ecosystems, wildlife, and human health. By reducing plastic waste through recycling, a bottle crusher helps protect the environment and minimize the adverse effects of plastic pollution on marine life, terrestrial habitats, and waterways.



**Plastic Bottle Crusher Machine**

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**Energy Conservation Measures**

**Renewable Power Generation**

The adoption of solar rooftop systems in Atmiya University significantly reduces carbon emissions, contributing to a cleaner and more sustainable environment while serving as a tangible demonstration of the institute's commitment to renewable energy and climate action. Additionally, the integration of solar rooftops enhances the educational experience by providing real-world examples of sustainable technology, inspiring students to explore and innovate in the field of renewable energy. Atmiya University having fully operational solar rooftop electricity generation capacity as per the vision of the government.



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**Rooftop Solar Plant**

**Renewable Power Generation per Month**

<b>Month &amp; Year</b>	<b>RE Cultivation in KWh</b>
June-2019	23,711
July-2019	21,180
August-2019	15,144
September-2019	16,634
October-2019	17,936
November-2019	24,740
December-2019	22,309
January-2020	23,540
February-2020	26,538
March-2020	18,630
April-2020	38,737
May-2020	29,866
<b>Total</b>	<b>2,78,965</b>



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**Energy Efficient Electrical Appliances**

Energy-efficient infrastructure in institutions not only lowers operational costs but also serves as a beacon of sustainable practices, showcasing the institution's dedication to environmental stewardship and responsible resource management. By implementing measures such as LED lighting, efficient HVAC systems, and smart building technologies, these institutions demonstrate leadership in sustainability while providing a conducive learning environment for students and faculty.



**LED Lighting and 5 Star Rated Appliances**

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**Water Management**

Water conservation is a key activity as water availability affects on the development of the campus as well as on all area of development such as farming, industries, etc. Keeping this view water conservation activity is carried out.

**Sources of Water**

- Rainwater Harvesting
- Bore water
- A Main source of water is RMC connection and Ground water is extracted to fulfill the requirement. The University stores the water in overhead tank.

**Sewage Disposal Facility**

Atmiya University is situated in the municipal area of Rajkot. RMC (Rajkot Municipal Corporation) provides municipal facilities to the university. Sewage is being disposed in the sewerage network of Rajkot city.

**RO Plant**

RO plants provide clean and safe drinking water by removing contaminants, such as bacteria, viruses, and dissolved solids, from the water. This ensures that students, faculty, and staff have access to safe drinking water, promoting better health and well-being. With access to clean drinking water on campus, there is less reliance on bottled water. This can lead to a significant reduction in plastic waste generated by the university, contributing to environmental sustainability efforts.



**Reverse Osmosis Plant for Drinking Water**

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**Rainwater Harvesting**

**Capacity : 12 Lac Liters**

**Environmental Benefits:** By reducing the demand for potable water and minimizing storm water runoff, rainwater harvesting contributes to environmental conservation efforts. It helps preserve freshwater resources, protects aquatic ecosystems, and mitigates the impacts of urbanization on natural hydrological cycles.

**Water Conservation:** Rainwater harvesting reduces reliance on traditional water sources by collecting and storing rainwater for various uses, such as irrigation, flushing toilets, and landscape maintenance. This helps conserve freshwater resources and reduces the strain on municipal water supplies, especially during periods of drought or water scarcity.



**Rainwater Harvesting Tank**

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**Air Pollution Control Measures**

**Acidic Fume Suction Panel**

Laboratory of chemistry department is equipped with the vapour suction panel mounted on the platform. It collects the hazardous gas and channelizes it to the wet scrubber for the neutralizing before discharge into the atmosphere.



**Acidic Fume Suction Panel**

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**Fume Hood at Chemistry laboratory**

Fume hoods are designed to contain and exhaust potentially hazardous fumes, vapors, and gases generated during chemical experiments. They create a barrier between the experiment and the laboratory environment, preventing exposure to toxic or harmful substances. Fume hoods protect laboratory personnel from inhaling harmful chemicals or being exposed to hazardous substances.



**Fumehood at Chemistry Laboratory**

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**Wet Scrubber**

- 1. Reduction of Air Pollution:** Scrubbers help remove harmful gases, such as hydrogen chloride (HCl) and hydrogen fluoride (HF), from the laboratory air. By capturing these pollutants before they are released into the atmosphere, scrubbers contribute to reducing air pollution and improving indoor and outdoor air quality.
- 2. Prevention of Acid Rain Formation:** Hydrogen chloride and hydrogen fluoride emissions can contribute to the formation of acid rain when released into the atmosphere. Alkali gas scrubbers mitigate this environmental impact by removing these acidic gases from laboratory emissions before they can react with moisture in the air and contribute to acid rain formation.
- 3. Protection of Ecosystems:** Acid rain resulting from air pollution can have detrimental effects on ecosystems, including damage to vegetation, soil, aquatic habitats, and wildlife. By reducing the emission of acidic gases, alkali gas scrubbers help protect sensitive ecosystems and promote biodiversity conservation.
- 4. Minimization of Health Risks:** Hydrogen chloride and hydrogen fluoride are corrosive and toxic gases that can pose health risks to laboratory personnel and surrounding communities if released into the environment. Alkali gas scrubbers help minimize these risks by capturing and neutralizing these hazardous pollutants before they can be emitted.
- 5. Reduction of Odors:** In addition to removing acidic gases, alkali gas scrubbers can also help eliminate unpleasant odors associated with certain chemical processes in the laboratory. This improvement in air quality enhances the comfort and well-being of laboratory personnel and visitors.
- 6. Conservation of Resources:** Alkali gas scrubbers typically utilize alkaline solutions, such as sodium hydroxide (NaOH), to neutralize acidic gases. While the operation of scrubbers requires resources such as water and chemicals, their use

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contributes to the conservation of environmental resources by preventing the release of pollutants into the air and minimizing the need for remediation measures.



**Wet Gas Scrubber**

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**Tree Plantation**

University campus is full of indigenous tree and medicinal plants produce positive impact on environment.

- **Air Quality Improvement:** Trees and plants act as natural air filters, absorbing carbon dioxide (CO<sub>2</sub>) and other pollutants from the air while releasing oxygen through the process of photosynthesis. This helps improve air quality on campus, reducing the concentration of harmful gases and particulate matter and promoting a healthier environment for students, faculty, and staff.
- **Carbon Sequestration:** Trees play a crucial role in mitigating climate change by sequestering carbon from the atmosphere and storing it in their biomass. By planting trees on campus, universities can contribute to carbon sequestration efforts and help offset their carbon footprint, supporting broader sustainability goals and initiatives.
- **Temperature Regulation:** Trees provide natural shade and evapotranspiration, helping to cool the surrounding environment and reduce the urban heat island effect. By creating shaded areas and lowering ambient temperatures, trees contribute to energy conservation efforts by reducing the need for air conditioning and mitigating heat-related stress during hot weather.
- **Storm water Management:** The roots of trees and plants help absorb rainwater and reduce runoff, preventing soil erosion and minimizing the risk of flooding and water pollution. By incorporating green infrastructure such as rain gardens and bio swales, university campuses can effectively manage storm water runoff, improve water quality, and enhance overall watershed health.
- **Biodiversity Conservation:** Trees and plants provide habitat and food sources for various species of birds, insects, and other wildlife, contributing to biodiversity conservation on campus. By creating green corridors and natural habitats, universities support local ecosystems and promote ecological resilience in urban environments.



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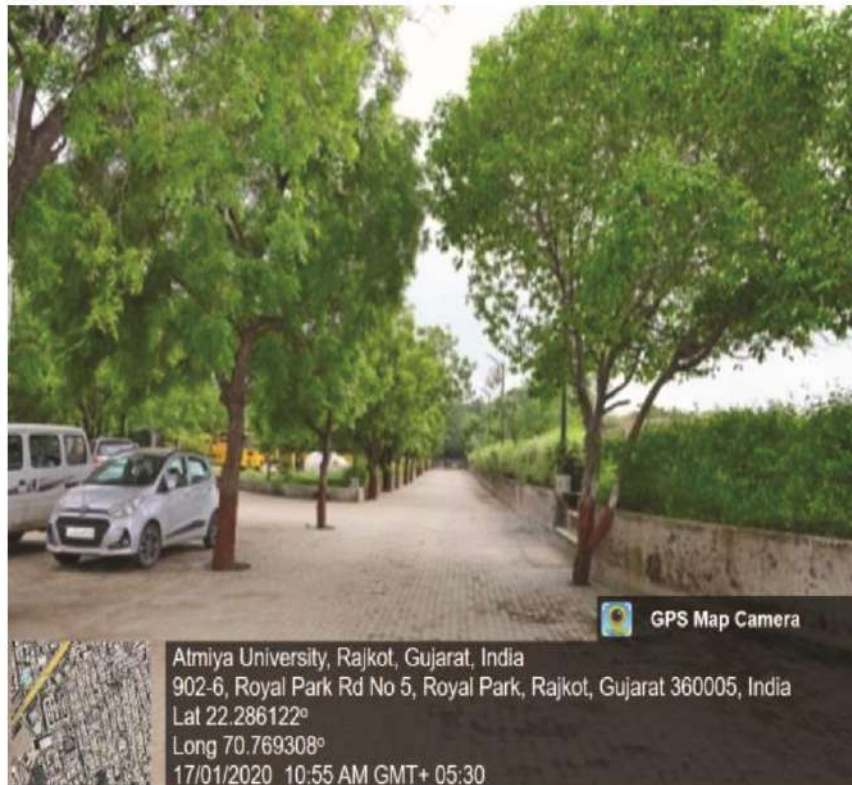
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- **Noise Reduction:** Trees and vegetation help absorb and deflect sound waves, acting as natural buffers against noise pollution from nearby roads, buildings, and other sources. By planting trees strategically around campus buildings and outdoor spaces, universities can create quieter and more tranquil environments conducive to learning, research, and relaxation.



**Greenery at Atmiya University Campus**



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**8) Audit Methodology**

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The criteria, methods and recommendations used in the audit were based on the identified risks. The methodology includes: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the document, interviewing responsible persons and data analysis, measurements and recommendations. The methodology adopted for this audit was a three-step process comprising of:

**1. Data Collection** - In preliminary data collection phase, exhaustive data collection was performed using different tools such as observation, survey communicating with responsible persons and measurements.

Following steps were taken for data collection:

- Site Visit
- Data about the general information was collected by observation and interview.
- The power consumption of appliances was recorded by taking an average value in some cases.

**2. Data Analysis** - Detailed analysis of data collected include: calculation of energy consumption, analysis of latest electricity bill of the campus, Water consumption, Waste Generation and Greenery Management.

**3. Recommendation** - On the basis of results of data analysis and observations, some steps for reducing power and water consumption were recommended. Proper treatments for waste were also suggested. Use of fossil fuels has to be reduced for the sake of community health.

The above target areas particular to the University was evaluated through questionnaire circulated among the students for data collection.

The following data collected for the following areas during the assessment.

1. Environment & Waste Management
2. Energy Management
3. Water Management



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**9) Monitoring, Observations & Recommendations**

**Ambient Air Quality Monitoring**

**Date: 17/01/2020**

<b>Location</b>	<b>PM<sub>10</sub> (µg/m<sup>3</sup>)</b>	<b>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</b>	<b>SO<sub>2</sub> (µg/m<sup>3</sup>)</b>	<b>NO<sub>2</sub> (µg/m<sup>3</sup>)</b>
AU Building Main Entrance	43.4	23.4	10.6	18.9
B/H Ashwad canteen	41.2	21.2	8.9	14.7
Nr. Bus parking	63.4	46.2	14.7	21.6
Nr. Haridarshanam Temple	67.8	49.4	16.8	22.5

**Noise Monitoring**

**Date: 17/01/2020**

<b>Location</b>	<b>Observed Value (db (A))</b>	<b>Permissible Day Time Limit (db (A))</b>
AU Building Main Entrance	48	50
B/H Ashwad canteen	45	
Nr. Bus parking	49	
Nr. Haridarshanam Temple	47	

**Environmental Audit Cell,  
V.V.P. Engineering College, Rajkot**





**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2019 to May 2020)**

**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water from VIP Parking Area
<b>Sample collection Date</b>	17/01/2020
<b>Sample analysis date</b>	17/01/2020
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.9	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	539.25	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	135.42	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	69.3	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	TLTC (< 7 colonies )
<b>MacConkey Plates</b>	TLTC (< 3 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

**Environmental Audit Cell,  
V.V.P. Engineering College, Rajkot**

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**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2019 to May 2020)**

**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell water from Yogidham Gate 3
<b>Sample collection Date</b>	17/01/2020
<b>Sample analysis date</b>	17/01/2020
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

<b>Sr. No.</b>	<b>Test Parameter</b>	<b>Results</b>	<b>Units</b>	<b>Desirable limit As per IS 10500:2012</b>	<b>Test method</b>
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.8	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	342.9	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	11.92	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	58	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

<b>Test</b>	<b>Observation</b>
<b>EMB plates</b>	TLTC (< 5 colonies )
<b>MacConkey Plates</b>	No Colonies Observed
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

**Environmental Audit Cell,  
V.V.P. Engineering College, Rajkot**

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**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2019 to May 2020)**

**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell water near boy's Hostel
<b>Sample collection Date</b>	17/01/2020
<b>Sample analysis date</b>	17/01/2020
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	Taste	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	Odour	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	pH	7.84	-	6.5 to 8.5	IS 3025 ( Part 11)
4	Total Dissolved Solids (TDS)	323.9	mg/l	500 max	IS 3025 ( Part 16)
5	Chloride	23.5	mg/l	250 max	IS 3025 (part 32)
6	Turbidity	<1	NTU	1.0 Max	IS 3025 (part 10)
7	BOD	5.67	mg/l	200 ± 37 mg/l	IS 3025 (part 44)
8	Total Hardness (as CaCO <sub>3</sub> )	70	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
EMB plates	TMTC ( > 100 colonies )
MacConkey Plates	TMTC ( > 100 colonies )
Single strength MPN broth	No Colour change, No Gas production
Double strength MPN broth	No Colour change, No Gas production

Environmental Audit Cell,  
V.V.P. Engineering College, Rajkot

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**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2019 to May 2020)**

**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water near Temple
<b>Sample collection Date</b>	17/01/2020
<b>Sample analysis date</b>	17/01/2020
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

<b>Sr. No.</b>	<b>Test Parameter</b>	<b>Results</b>	<b>Units</b>	<b>Desirable limit As per IS 10500:2012</b>	<b>Test method</b>
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.92	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	332.5	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	8.23	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>BOD</b>	5.27	mg/l	200 ± 37 mg/l	IS 3025 (part 44)
8	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	88	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

<b>Test</b>	<b>Observation</b>
<b>EMB plates</b>	TLTC (< 5 colonies )
<b>MacConkey Plates</b>	TLTC (< 4 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

**Environmental Audit Cell,  
V.V.P. Engineering College, Rajkot**







**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2019 to May 2020)**

**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Drinking Water- AU Main Building
<b>Sample collection Date</b>	17/01/2020
<b>Sample analysis date</b>	17/01/2020
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	Taste	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	Odour	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	pH	7.70	-	6.5 to 8.5	IS 3025 ( Part 11)
4	Total Dissolved Solids (TDS)	128.6	mg/l	500 max	IS 3025 ( Part 16)
5	Chloride	9.87	mg/l	250 max	IS 3025 (part 32)
6	Turbidity	<1	NTU	1.0 Max	IS 3025 (part 10)
7	BOD	4.83	mg/l	200 ± 37 mg/l	IS 3025 (part 44)
8	Total Hardness (as CaCO <sub>3</sub> )	16	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
EMB plates	No Colonies Observed
MacConkey Plates	No Colonies Observed
Single strength MPN broth	No Colour change, No Gas production
Double strength MPN broth	No Colour change, No Gas production

**Environmental Audit Cell,  
V.V.P. Engineering College, Rajkot**

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**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2019 to May 2020)**

**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Drinking Water- Science Building
<b>Sample collection Date</b>	17/01/2020
<b>Sample analysis date</b>	17/01/2020
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.80	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	144.5	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	7.63	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>BOD</b>	3.20	mg/l	200 ± 37 mg/l	IS 3025 (part 44)
8	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	25	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	No Colonies Observed
<b>MacConkey Plates</b>	No Colonies Observed
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

\*TLTC-Too Less To Count

\* TMTC-Too Much To Count



**Environmental Audit Cell,  
V.V.P. Engineering College, Rajkot**





**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2019 to May 2020)**

**Observations & Suggestions:**

1. University have installed the energy efficient LED lighting however it is recommended that university should install sensor based LED lights at critical movement areas.
2. RO reject water is being utilized into the garden for the irrigation purpose. It is a very good initiative. To upgrade the water conservation one step ahead. It is recommended that university should go for the installation of sewage treatment plant.
3. University is using the rainwater by storing it into the underground tank. It is recommended that create awareness in surrounding area about this good initiative
4. Currently biodegradable waste is being disposed by the composting. It can be upgraded to the biogas plant. This will improve resource utilization factor of waste.
5. University is situated in the heart of Rajkot city. Majority student commute by the personal vehicle. It is suggested that university should start bus service.
6. University have the state of the art laboratory facility for the environmental monitoring.
7. The botanical garden is located within the campus to preserve local plant species.
8. University has provided separate dustbin for the recyclable and non-recyclable waste is a positive step towards the sustainability.

**Registrar**  
Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
**Rajkot**

**Environmental Audit Cell,  
V.V.P. Engineering College, Rajkot**

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Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2019 to May 2020)

### 10) Certificate



## V.V.P. ENGINEERING COLLEGE


ENVIRONMENTAL AUDIT CELL, Vajdi - Virda, Kalawad Road, Rajkot

### Environmental Audit Certificate Atmiya University, Rajkot-360005-Gujarat-India For the AY (2019-20)


Environmental Audit for the period **June 2019 to May 2020** has been conducted for the **Atmiya University, Rajkot** to assess the green initiatives planning and efforts implemented in the college campus like Green Campus Management. This Environmental Audit is also aimed to assess eco-friendly initiatives of the Institute towards sustainability.

It is believed that the institution has presented authentic data on various aspects of working of the institute before the audit team. The recommendations are based on the data presented before the team as they existed at the audit time. This certificate is valid for the audit period only. However, it is subject to automatic cancellation in case of any change in prevailing green practice or misleading data. The findings reported in this audit report are entirely based on data furnished by the institute and data collected by the audit team during the audit. Thus, the findings reported in this audit report are strictly limited to the period when the audit was conducted.

The Environmental Quality in the campus is found **adequate and efficacious**.

<p><b>Dr. Sushil Korgaokar</b> (Recognised Schedule-I Environmental Auditor, Gujarat Pollution Control Board- GPCB – Gandhinagar, Gujarat)</p> <p>Environmental Audit Laboratory, V.V.P. Engineering College, Virda – Vajdi, Kalawad Road, Opp. Motel the Village, Rajkot-360005-Gujarat-India</p>	
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I assure that the data presented is authentic to the best of my knowledge & I agree to comply with the recommendations received this report within a year at maximum after the internal review.

<p><b>Dr. Ashish M. Kothari,</b> Dy. Registrar, Atmiya University, Rajkot-360005-Gujarat-India</p>	
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Environmental Audit Cell,  
V.V.P. Engineering College, Rajkot





## 1.5 GREEN/ ENVIRONMENT AUDIT 2020-21

CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot – 360 005  
(Audit Period: June 2020 to May 2021)

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Environmental Audit & Consultancy Cell,  
V.V.P. Engineering College, Rajkot

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**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2020 to May 2021)

## 1) Executive Summary

Atmiya University established on April 13, 2018, under the Gujarat Private University Act 11, 2018, ATMIYA University emphasizes to train young minds in consonance with the doctrines of higher education and human values. The aim of this University is to spread eternal happiness and to create a happy society in letter and spirit. The motto “सुहृदंसर्वभूतानम्” (Suhardam Sarva Bhootanam) is an expression of willingness to attain harmony with each creation of the Almighty! This environmental audit report provides a comprehensive overview of Atmiya University, located in the vibrant city of Rajkot, Gujarat. Atmiya University, a prominent educational institution in the region, serves as a dynamic center for higher education, offering a diverse range of undergraduate, postgraduate, and doctoral programs. Established with a vision ‘To nurture creative thinkers and leaders through transformative learning’ and committed to create a transformative learning experience by imbibing domain specific knowledge & wisdom and to focus on research based teaching learning with Industry relevant application knowledge. The university plays a crucial role in shaping the region’s educational landscape.

Situated in an urban setting, Atmiya University benefits from excellent connectivity and accessibility within the Rajkot area. The campus spans approximately 23.5 acre and features modern infrastructure that includes state-of-the-art classrooms, research labs, libraries, recreational facilities, and green spaces that enhance the learning environment.

The university accommodates a diverse and vibrant community from various parts of India and beyond. This thriving student body is supported by a faculty dedicated to promoting sustainable practices on campus, aligning with Atmiya University’s mission to minimize its environmental impact.

A satellite image of the campus highlights its strategic layout and showcases the integration of natural and built environments, offering a visual perspective on the university’s physical footprint within the urban landscape. This audit aims to evaluate Atmiya University’s environmental practices and suggest actionable steps to enhance sustainability, further aligning with global standards in environmental responsibility and conservation.



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V.V.P. Engineering College, Rajkot

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**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2020 to May 2021)**

**2) Acknowledgment**

On behalf of the Environmental Audit & Consultancy Cell at **V.V.P. Engineering College, Rajkot**, we would like to express our sincere gratitude to the management of **Atmiya University, Rajkot** for entrusting us with the important task of conducting their Environmental Audit/Green Audit.

We deeply appreciate the cooperation extended by your team throughout the assessment process. This cooperation was instrumental in the successful completion of the audit.

We would also like to extend our special thanks to **Dr. Ashish Kothari, Deputy Registrar**, for their unwavering support. Their dedication proved to be invaluable in ensuring the project's completion. Finally, we thank all other staff members who actively participated in data collection and field measurements. Their contributions were essential to the smooth execution of the audit.

We are also thankful to:

SN	Name	Designation
1	Er. Ravi S. Tank	Chemical Engineer
2	Dr. Hemantkumar G. Sonkusare	Civil Engineer
3	Dr. Anilkumar S. Patel	Chemist

In closing, we would like to express our gratitude to **Dr. Santhanakrishnan Pillai, Vice Chancellor, Atmiya University** for extending the opportunity to evaluate their esteemed campus's environmental performance.

**Environmental Audit & Consultancy Cell,  
V.V.P. Engineering College, Rajkot**

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**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2020 to May 2021)**

**3) Disclaimer**

This Green Audit report has been prepared by the Environmental Audit Cell at V.V.P. Engineering College, Rajkot for of Atmiya University, Rajkot. It incorporates data submitted by University officials/representatives along with expert analysis by the EA&CC Audit team.

While all reasonable efforts have been made to ensure its accuracy, the report is based on information gathered in good faith. Conclusions are based on best estimates and do not constitute any express or implied warranty or undertaking. The EA&CC at Atmiya University, Rajkot assumes no responsibility for any direct or consequential loss arising from the use of the information, statements, or forecasts in this report.

The findings presented in this report are based entirely on data provided by Atmiya University and gathered by the audit team during their audit & monitoring visit. It assumes normal operating conditions within the institution throughout the audit period. The auditors are unable to comment on environmental audit parameters outside the scope of the on-site surveys. Consequently, the report's findings are strictly limited to the timeframe during which the audit team conducted its assessment.

The Environment Audit Cell at V.V.P. Engineering College, Rajkot, maintains strict confidentiality regarding all information pertaining to Atmiya University. No such information will be disclosed to any third party except public domain knowledge or when required by law or relevant accreditation bodies.

This certificate is valid solely for the current Environmental Audit/Green Audit report. It may be automatically revoked if any significant changes occur in the quantity or quality of waste generation at the aforementioned institute.

Environment Audit Cell,  
V.V.P. Engineering College

Environmental Audit & Consultancy Cell,  
V.V.P. Engineering College, Rajkot

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Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
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**4) Introduction**

Since the 2019-20 academic year, the National Assessment and Accreditation Council (NAAC) requires all Higher Educational Institutions (HEIs) to submit an annual Environmental Audit/Green Audit report. This requirement falls under Criterion 7 of the NAAC accreditation process, which evaluates institutions for their environmental sustainability practices. NAAC, an autonomous body in India, assigns accreditation grades (A, B, or C) based on various criteria, including environmental stewardship.

Furthermore, conducting Environmental Audit/Green Audits aligns with the Corporate Social Responsibility (CSR) initiatives of HEIs. By implementing measures to reduce their carbon footprint, institutions contribute positively to mitigating global warming.

In response to the NAAC mandate, the University management opted for an external Environmental Audit/Green Audit conducted by a qualified professional auditor.

Environmental Audit/Green Audit entails a comprehensive environmental assessment, examining both on-campus and off-campus practices that directly or indirectly impact the environment. In essence, it is a systematic process of identifying, quantifying, recording, reporting, and analysing environmental aspects within the institute setting.

Environmental Audit/Green Audits originated as a tool to evaluate institutional activities that might pose risks to human health and the environment. It provides valuable insights for improvement, guiding institutions towards environmentally responsible practices and infrastructure.

The specific areas covered by this audit include Green Campus initiatives, Waste Management, Water Management, Air Pollution Control, Energy Management, and Carbon Footprint reduction strategies employed by the University.

The following sections delve deeper into the concept, structure, objectives, methodology, analytical tools, and overall goals of this Green Audit.

Educational institutions are increasingly prioritizing environmental concerns. As a result, innovative concepts are emerging to make campuses more sustainable and eco-friendly. Numerous institutions are adopting various approaches to address environmental challenges within their facilities, such as promoting

**Environmental Audit & Consultancy Cell,  
V.V.P. Engineering College, Rajkot**

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(Audit Period: June 2020 to May 2021)**

energy conservation, waste recycling, water use reduction, and rainwater harvesting.

The activities of educational institutions can have both positive and negative environmental impacts. A Green Audit is a formal evaluation process that assesses the University's environmental footprint. It provides a comprehensive picture of the current environmental conditions on campus.

Green Audits are a valuable tool for universities to identify areas of high energy, water, or resource consumption. This allows institutions to implement targeted changes and achieve cost savings. Additionally, Green Audits can analyse the nature and volume of waste generated, leading to improved recycling programs or waste minimization plans.

Green auditing and the implementation of mitigation measures offer a win-win scenario for institutions, students, and the environment. It can foster health and environmental awareness, promoting values and beliefs that benefit everyone. Green Audits also provide an opportunity for staff and students to gain a deeper understanding of the impact their institution has on the environment.

Furthermore, Green Audits can translate into financial savings by encouraging a reduction in resource usage. This process also empowers students and teachers to develop a sense of ownership for personal and social environmental responsibility.

The Green Audit process typically involves collecting primary data, conducting a site visit with University representatives, and reviewing relevant policies, activities, documents, and records.

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**

**Environmental Audit & Consultancy Cell,  
V.V.P. Engineering College, Rajkot**

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Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2020 to May 2021)**

**OBJECTIVE AND SCOPE**

The broad aims/benefits of the Environmental Audit/Green Audit would be

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Sustainable use of natural resource in the campus.
- Financial savings 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
- Enhancement of University profile
- Developing an environmental ethic and value systems in young people

**Outcomes OF ENVIRONMENT AUDIT TO EDUCATIONAL INSTITUTIONS**

There are many advantages of environment audit to an Educational Institute:

1. Protect the environment in and around the campus.
2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Empower the organization to frame a better environmental performance.
4. Portrays good image of institution through its clean and green campus.

**Environmental Audit & Consultancy Cell,  
V.V.P. Engineering College, Rajkot**

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CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot – 360 005  
(Audit Period: June 2020 to May 2021)

## 5) Environmental Policy



# ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act II, 2018)  
Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

### Environment and Sustainability Policy for Green Campus

Atmiya University recognizes the critical importance of environmental sustainability and its role in minimizing ecological footprints. Guided by its commitment to the principles of conservation and harmony with nature, the university adopts this Policy to integrate environmental awareness and sustainable practices into its daily academic and administrative operations, education, and community engagement. This policy reflects the university's dedication to fostering a sustainable future.

#### Objective

Atmiya University strives to establish a clean, green, and sustainable campus by:

- Developing, monitoring, and evaluating a policy to guide green campus initiatives.
- Reducing the ecological footprint through sustainable practices.
- Educating students and staff on environmental issues and on building harmony with nature & mother earth to create a healthier, sustainable future.
- Promoting innovative environmental practices to enhance sustainability performance.
- Strengthening an environmentally responsible culture across curricular and extracurricular activities.
- Addressing local and regional environmental challenges with sustainable solutions.
- Ensuring sustainable resource use and minimizing wasteful practices.
- Protecting biodiversity and reducing environmental pollution.

#### Environmental Goals and Targets

The university sets specific goals such as reducing energy consumption, minimizing waste generation, conserving water, managing/recycling/disposal of waste, and promoting biodiversity to enhance its sustainability initiatives.

#### Key Focus Areas

1. **Clean Campus Initiatives:** Regular cleaning drives, waste segregation, and beautification projects.



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V.V.P. Engineering College, Rajkot

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Yogidham Gurukul, Kalawad Road, Rajkot – 360 005  
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## ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act II, 2016)  
Yogidham Gurukul, Kalawad Road, Rajkot – 360005, Gujarat (INDIA)

2. **Green Energy:** Installing renewable energy sources to reduce dependency on non-renewable energy sources.
3. **Landscaping and Biodiversity:** Developing green spaces, planting neem trees, and conserving biodiversity.
4. **Energy Efficiency:** Installing energy-efficient appliances, natural lighting, and ventilation.
5. **Water Conservation:** Using rainwater harvesting systems, low-flow fixtures, and RO wastewater recycling.
6. **Waste Management:** Segregating solid, liquid, e-waste, and bio-waste for recycling and composting.
7. **Transportation and Mobility:** Promoting biking, carpooling, e-vehicles, and public transit.
8. **Green Building Standards:** Incorporating eco-friendly designs in construction and renovation projects.
9. **Curriculum Integration:** Courses on SDG awareness and environmental science across all disciplines.
10. **Community Engagement:** Conducting workshops, seminars, and outreach programs on environmental topics.

### Key Practices

#### 1. Energy Efficiency

- Transition to energy-efficient devices and systems.
- Encourage behaviour changes for energy conservation.
- Promote renewable energy solutions like solar and biogas.

#### 2. Waste Management and Recycling

- Comprehensive waste management with dedicated recycling and composting units.
- Initiatives like **Parivartan (Paper Recycling Unit)** and **Surjan (Agricultural Waste Recycling Unit)** to create sustainable products.

#### 3. Water Conservation

- Installation of rainwater harvesting systems and reservoirs with a 17 lakh-litre capacity.
- Xeriscaping and responsible water usage to reduce dependency on municipal water.



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(Audit Period: June 2020 to May 2021)



## ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act 11, 2018)  
Yogidham Gurukul, Kalawad Road, Rajkot – 360005, Gujarat (INDIA)

### 4. Biodiversity and Green Spaces

- Develop gardens, tree plantations, and outdoor educational spaces to promote biodiversity.
- Integrate sustainable farming practices using Panchgavya and Jivamrut fertilizers.

### 5. Transportation and Mobility

- Establish e-vehicle charging stations, bike racks, and pedestrian-friendly paths.

### 6. Education and Awareness

- Organize campaigns like Use Solar-Save Nature, Save Energy-Water and tree plantation drives.
- Include sustainability topics in the curriculum to foster awareness and innovation.

### Implementation and Monitoring

- **Incentives and Recognition:** Reward active participants in sustainability efforts.
- **Budget and Funding:** Allocate resources for projects and seek grants for sustainability initiatives.
- **Compliance and Legal Adherence:** Ensure alignment with relevant environmental laws and regulations.
- **Periodic Review:** Monitor the policy's impact and revise based on feedback and emerging challenges.

### Conclusion

Adopting this Policy highlights Atmiya University's unwavering commitment to environmental stewardship and sustainable development. By fostering a culture of awareness and proactive participation, the university aspires to create a greener and healthier campus, setting a benchmark for future generations. Together, we will build a resilient and sustainable future.



  
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**6) General Information**

- a. Does any Green Audit conducted earlier? **Yes**
- b. Total Area of the University = 84455 m<sup>2</sup>
- c. What is the total strength (people count) of the Institute?

AY	Students			Teaching Staff			Non-Teaching Staff			Total		
	M	F	Trans	M	F	Trans	M	F	Trans	M	F	Trans
2020-2021	3399	1984	0	166	79	0	188	19	0	3753	2082	0

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

Month (AY- 2020-2021)	No. of Working Days
June	26
July	27
August	18
September	26
October	26
November	13
December	27
January	25
February	24
March	25
April	23
May	24
<b>Total</b>	<b>284</b>

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**e. Which of the following are found near your institute?**

Municipal dump yard	No
Garbage heap	No
Public convenience	Yes
Sewer line	Yes
Stagnant water	No
Industry	No
Bus / Railway station	Yes
Market / Shopping complex	Yes
Play Ground	Yes

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

Type of waste		Response	Detail(s) of Waste Generated	Quantity of Waste Generated (kg)
Solid	Biodegradable	Yes	Gardening, Cow dung	175
	Non-biodegradable	Yes	Sweeping waste,	10
	e-waste	Yes	Computer, Battery	1955
Liquid		Yes	Kitchen Waste	35
Gas		No	--	--

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

- Composting: Gardening and cow dung waste used to make compost.
- Non-recyclable and non biodegradable waste disposal is managed by the Rajkot Municipal Corporation.



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**h. Do you use recycled paper in institute? Yes**

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

Poster competition activities	<b>Yes</b>
Campaigns	<b>Yes</b>
Webinars and seminars	<b>Yes</b>

**j. Is there a garden in your institute?**

<b>Garden</b>	<b>Yes</b>	<b>Area = 6732.26m<sup>2</sup></b>
---------------	------------	------------------------------------

**k. Total number of Plants in Campus?**

<b>SN</b>	<b>Namepd Species</b>	<b>Numbers</b>
1	Neem Tree	211
2	Lemon cypress	1
3	FicusMicrocapra	100
4	Hedge Plant	01
5	Tajplantshub dracaena	01
6	Crown of Throns	01
7	Spanish Moss (TilandsiaUsneoides)	10
8	Ruellia simplex	51
9	FagusSylvatica plant	01
10	Euphorbia Tithymaloides	11
11	Weeping Fig	685
12	LysilomaWatsonil	01
13	Royal Palm	38
14	Bamboo	230

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15	Moringa	01
16	Acalyphawilkesiana	300
17	Dracaena Angustifolia	11
18	<i>Polysciasscutellaria</i>	04
19	<u>CordylinEFRUTICOSA</u>	40
20	Dracaena Reflexa	500
21	Garden Croton	01
22	polysciasguilfoylei	10
23	Oyster Plant (tradescantiazebrina)	300
24	Lonicerapileata	50
25	Saribusrotundifolius	10
26	Ixora	10
27	Hyophorbelagenicaulis	20
28	Purple heart	150
29	Yellow cosmos (sulphur cosmos)	100
30	Canna discolor	15
31	Durantaerecta	1100
32	Pritchardiapacifica	11
33	Capparissandwichiana	50
34	Nerium Oleander	10
35	Casuarinaequisetifolia	20
36	Caryotaurens	2
37	Areca palm	20



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38	Ravenala	10
39	Iresineherbstii	300
40	Sago Plam	22
41	Sphgneticolatrilobata	1500
42	Thuja	24
43	Dracaena trifasciata	62
44	Ponytail Palm	2
45	Asparagus densiflorus	50
46	Alocasiazebrina	02
47	Bismarck palm	8
49	Lotus	100
50	Catharanthus	50
51	Padavati Jasmin	50
52	Caryotamitis	04
53	Monoonlongifolium	3
54	Breyniadisticha	50
55	PlumeriaObtusa	10
56	Alovera	100
57	Century Plant	30
58	Sweet osmanthus	1
59	Crinum asiaticum	27
60	Diantherapectoralis	200
61	Hibiscus	10



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62	Ficusaspera	5
63	Mulberry tree	10
64	Barbary fig	5
65	Dracaena angolensis	2
66	Terminaliachebula plant	2
67	Nettlespurges	2
68	Yellow elder	2
69	MadhucaLongifolia	2
70	Eucalyptus globulus.	1
71	Melicoccusbijugatus	1
72	Casuarinaequisetifolia	1
73	Indian jujube	5
74	Tulsi	50
75	Coconut palm tree	8
76	Calotropisgigantea	1
77	Persian Silk	5
78	Mango tree	1
79	Curry Tree	4
80	Punicagranatum	5
81	Pandanusveitchii	50
82	Streblusasper	5
<b>Total</b>		<b>6859</b>



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**I. List uses of water in your institute**

<b>Basic use of water in campus</b>	<b>KL/Day</b>
Drinking	3
Gardening	15
Kitchen and Toilets	4
Others	6
Hostel	4
<b>Total</b>	<b>32 KL/Day</b>

**m. Electricity Consumed**

<b>Month (Academic Year 2020-2021)</b>	<b>Electricity Consumed (kWh)</b>
June	1,37,230
July	1,36,957
August	1,12,314
September	1,08,832
October	99,057
November	90,189
December	71,830
January	75,191
February	84,981
March	1,17,450
April	1,39,358
May	1,01,102
<b>Total</b>	<b>12,74,491</b>

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

Building	SN	Tank Description	Size (liter)	No. of Tank	Capacity (liter)
AU Building	1	Raw Water- A Wing	2500	4	10000
	2	Raw Water- B Wing	2500	4	10000
	3	Master RO - Raw Water	5000	3	15000
	4	RO Water Tank	2500	7	17500
	5	Pharmacy and Mechanical Lab	2000	1	2000
	6	Faculty Block (A& B Wing)	2500	2	5000
	7	Library Terrace	2000	1	2000
	8	Raw Water Near AU Building- Underground	275000	1	275000
MPAB	9	RO Water - at Terrace	2000	2	4000
	10	Raw Water- at Terrace	60000	1	60000
	11	Raw Water- at Terrace	40000	7	280000
	12	Near Building- Undrground	333746	2	667492
	13	Near Building- Undrground	336826	2	673652
	14	Below Temple- Underground	189924	1	189924
	15	Below Temple- Underground	43718	1	43718
	16	In Front of Store- Underground	123604	1	123604

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Workshop	17	RO Water- at Terrace	2000	1	2000
	18	Raw Water- at Terrace	2000	2	4000
	19	Raw Warer- at Terrace	5000	1	5000
	20	Behind Workshop- Round Tank- Underground	45650	1	45650
Science Building	21	RO Water- at Terrace	2500	1	2500
	22	Raw Water Tank- at Terrace	23300	2	46600
	23	Raw Water Tank- Ladies Toilet	30000	3	90000
	24	CIF Lab	1500	1	1500
	25	Raw Water- OTIS- Underground	32620	1	32620
	26	Wastewater- Outside the Building	2000	1	2000
Yogidham Gate	27	Raw Water Tank- Underground	48750	4	195000
Niramay	28	RO Water Tanki at Terrace	2500	1	2500
	29	Raw Water Tank- at Terrace	11650	1	11650
	30	Raw Water Tank- Near Office	5000	2	10000
Sarva naman	31	Raw Water Tank- at Terrace	2000	1	2000
	32	Raw Water Tank- at Terrace	8550	1	8550
	33	Raw Water- inside building	600	1	600
<b>Total Water Storage Capacity</b>					<b>28,41,060</b>

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**7) Green Initiatives By the Institute**

**Green Architecture**

The incorporation of green architecture principles in academic institutions not only reduces environmental impact but also fosters a healthier and more inspiring learning environment for students and faculty alike. By integrating features such as passive solar design, natural ventilation, and green roofs, these institutions showcase a commitment to sustainability while promoting innovation and awareness of eco-friendly design practices within the academic community.



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**Natural Light and Ventilation in Academic Building**

**Impact:**

- Low artificial lighting requirements
- Energy consumption optimization
- Low green house gas emission
- Low level of strain to Eyes

**Campus Biodiversity**

A thriving campus biodiversity in academic institutions is not merely a reflection of ecological health but also serves as a testament to the institution's commitment to sustainability and environmental stewardship. It provides a living laboratory for students to engage with nature firsthand, fostering a deeper understanding of ecological systems and instilling a sense of responsibility towards conservation. Beyond its educational value, a biodiverse campus offers numerous benefits such as improved air and water quality, enhanced aesthetics, and increased resilience to environmental stressors. It becomes a sanctuary for wildlife, contributing to the preservation of local



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ecosystems and biodiversity at large. Atmiya University campus is a rich in the biodiversity with the full of greenery and in house terrace garden.



**Glimpse of Flora at University Campus**

**Gaushala at Campus**

- 12 Indian Breed Cow
- 01 Bull
- State of the art facilities
- Value addition cow urine for herbal and fertilizer utilization
- Decorative products are being made from the cow dung.
- Jivamrut fertilizer being used in the campus is a product of gaushala.
- It contributes to maintain the organic carbon content in the campus soil as it provides the raw material for the compost.



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**Satyakam Gaushala**

It provides students with firsthand experience in animal care, veterinary science, and sustainable agriculture. They can learn about the importance of cows in Indian culture, their significance in agriculture, and sustainable farming practices.

Gaushalas contributes to the eco-friendly practices like composting cow dung for fertilizer, using biogas for cooking which can serve as models for sustainable living and agriculture.

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In Indian cultures, cows are revered as sacred animals. Having a gaushala on campus can help preserve and promote this cultural heritage among students and the community.

Universities can conduct research on various aspects of cow rearing, including breeding, nutrition, and healthcare. This research can contribute to advancements in animal science and agriculture.

Cows play a crucial role in maintaining soil fertility through their dung, which is rich in nutrients. By managing cow waste effectively, gaushalas can contribute to soil health and environmental conservation.

#### **Solid Waste Management**

##### **Natural Fertilizer from Organic Waste**

##### **Jivamrut (Natural Fertilizer)**

Installation Detail:

- Year: 2008
- Place: at boys parking
- Process: Collect neem leaves form campus and added with cow dung, cow urine and Earthworms

##### **Amrut Soil**

- Ingredients for AmrutMitti range from cow dung, cow urine, biomass like dry and decayed leaves, household kitchen waste like vegetable peels.
- AmrutSoil is full of all nutrients needed by plants, is very rich in variety of microbes, has the right pH, has high carbon content, has excellent water holding capacity.
- Mixing Cow dung, cow urine and jaggery
- Immersing dry biomass in Amrutjal kept in drums
- Process take at least 1 month
- Use as garden fertilizer.

##### **Impact:**

- Applied in garden as fertilizer
- Improve soil micro-biota of campus soil
- Less usages of chemical fertilizer

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Amrut Soil and Jivamrut Plant

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**Municipal Solid Waste Segregation Bin**



**Separate Dustbin for Recyclable and Non-Recyclable Waste**

University campus having more the 100 solid waste collection dustbin design for the proper waste segregation. Waste paper is recycled at the in-house paper recycling facility and converted into the filter paper, envelope and other artistic and decorative products.

Having separate bins encourages people to sort their waste, making it easier to recycle materials such as paper, plastic, glass, and metal. This promotes a culture of recycling and reduces the amount of waste sent to landfills or incinerators.

Recycling materials reduces the need for raw materials, energy, and water required to manufacture new products. This conserves natural resources and reduces the environmental impact associated with extraction, processing, and transportation.

Implementing separate bins provides an opportunity for educational initiatives on waste management, recycling, and environmental stewardship. Students, faculty, and staff can learn about the importance of recycling and how their actions contribute to sustainability.

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**Paper Recycling Unit**

In embracing the principles of the circular economy, Atmiya university is pioneer in sustainable practices such as paper recycling, ensuring that resources are reused and regenerated rather than disposed of after single use. By implementing robust paper recycling programs, these institutes not only reduce waste and environmental impact but also cultivate a culture of resource efficiency and responsible consumption among students, faculty, and staff.

Recycling paper can lead to cost savings for the university by reducing waste disposal fees and the need to purchase new paper products. This can free up financial resources that can be allocated to other campus initiatives or projects.



**Parivartan- Paper Recycling Plant**

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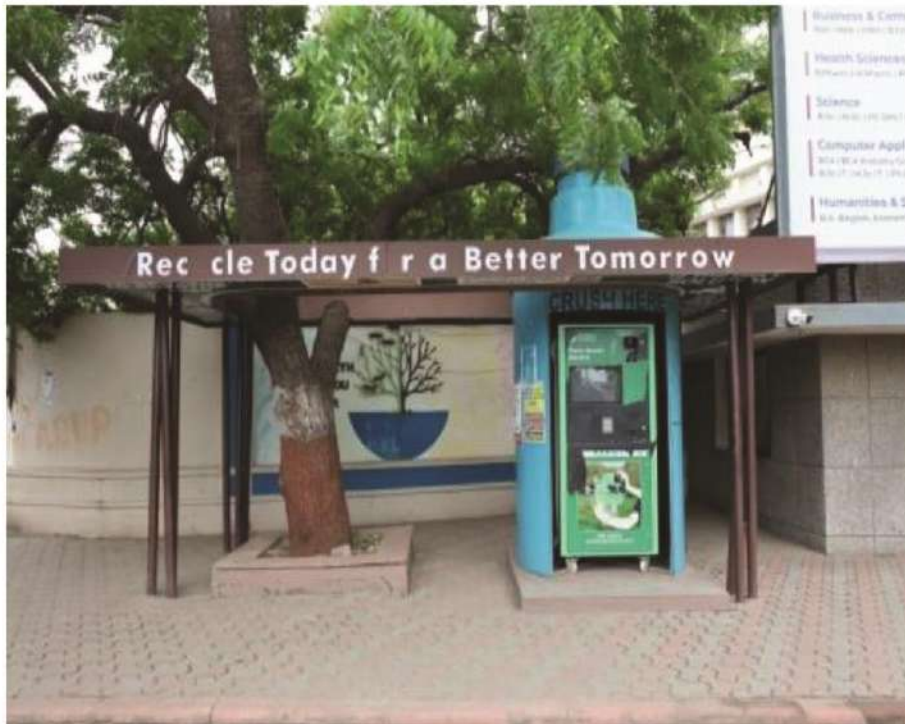
**Plastic Water Bottle Recycling Plant**

University have installed water bottle recycling plant at entrance for all stakeholders having capacity of 20 kg/day

A bottle crusher helps reduce the volume of plastic bottles, thereby decreasing the amount of plastic waste generated on campus. This contributes to waste reduction efforts and helps minimize the environmental impact of plastic pollution.

By providing a convenient way to crush plastic bottles, the crusher encourages recycling behavior among students, faculty, and staff. It reinforces the importance of recycling and helps divert plastic waste from landfills or incinerators.

Plastic pollution poses significant threats to ecosystems, wildlife, and human health. By reducing plastic waste through recycling, a bottle crusher helps protect the environment and minimize the adverse effects of plastic pollution on marine life, terrestrial habitats, and waterways.



**Plastic Bottle Crusher Machine**

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**Energy Conservation Measures**

**Renewable Power Generation**

The adoption of solar rooftop systems in Atmiya university significantly reduces carbon emissions, contributing to a cleaner and more sustainable environment while serving as a tangible demonstration of the institute's commitment to renewable energy and climate action. Additionally, the integration of solar rooftops enhances the educational experience by providing real-world examples of sustainable technology, inspiring students to explore and innovate in the field of renewable energy. Atmiya University having fully operational solar rooftop electricity generation capacity as per the vision of the government.



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**Rooftop Solar Plant**

**Renewable Power Generation per Month**

<b>Month &amp; Year</b>	<b>RE Cultivation in KWh</b>
Jun-20	22,195
Jul-20	21,712
Aug-20	14,434
Sep-20	22,112
Oct-20	25,762
Nov-20	22,129
Dec-20	22,270
Jan-21	24,591
Feb-21	23,961
Mar-21	28,130
Apr-21	24,533
May-21	22,452
<b>Total</b>	<b>2,74,281</b>



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### Energy Efficient Electrical Appliances

Energy-efficient infrastructure in institutions not only lowers operational costs but also serves as a beacon of sustainable practices, showcasing the institution's dedication to environmental stewardship and responsible resource management. By implementing measures such as LED lighting, efficient HVAC systems, and smart building technologies, these institutions demonstrate leadership in sustainability while providing a conducive learning environment for students and faculty.



Use of LED bulbs in Entire Campus area for Power Saving  
Sensor-based energy conservation



500+ Neem Trees in Campus  
Keeps Average temperature lower in surroundings area compared with city  
(Monitored with Wet bulb and dry bulb method)



Energy Efficient Computers With LED screen for power saving



Power Efficient Equipment –  
5 Star Rated Appliances/ Equipment



LED lights for Power saving

### LED Lighting and 5 Star Rated Appliances





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**Water Management**

Water conservation is a key activity as water availability affects on the development of the campus as well as on all area of development such as farming, industries, etc. Keeping this view water conservation activity is carried out.

**Sources of Water**

- Rainwater Harvesting
- Bore water
- A Main source of water is RMC connection and Ground water is extracted to fulfill the requirement. The University stores the water in overhead tank.

**Sewage Disposal Facility**

Atmiya University is situated in the municipal area of Rajkot. RMC (Rajkot Municipal Corporation) provides municipal facilities to the university. Sewage is being disposed in the sewerage network of Rajkot city.

**RO Plant**

RO plants provide clean and safe drinking water by removing contaminants, such as bacteria, viruses, and dissolved solids, from the water. This ensures that students, faculty, and staff have access to safe drinking water, promoting better health and well-being. With access to clean drinking water on campus, there is less reliance on bottled water. This can lead to a significant reduction in plastic waste generated by the university, contributing to environmental sustainability efforts.



**Reverse Osmosis Plant for Drinking Water**

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**Rainwater Harvesting**

**Capacity : 12 Lac Liters**

**Environmental Benefits:** By reducing the demand for potable water and minimizing stormwater runoff, rainwater harvesting contributes to environmental conservation efforts. It helps preserve freshwater resources, protects aquatic ecosystems, and mitigates the impacts of urbanization on natural hydrological cycles.

**Water Conservation:** Rainwater harvesting reduces reliance on traditional water sources by collecting and storing rainwater for various uses, such as irrigation, flushing toilets, and landscape maintenance. This helps conserve freshwater resources and reduces the strain on municipal water supplies, especially during periods of drought or water scarcity.



**Rainwater Harvesting Tank**



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**Air Pollution Control Measures**

**Acidic Fume Suction Panel**

Laboratory of chemistry department is equipped with the vapour suction panel mounted on the platform. It collects the hazardous gas and channelizes it to the wet scrubber for the neutralizing before discharge into the atmosphere.



**Acidic Fume Suction Panel**



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**Fume Hood at Chemistry laboratory**

Fume hoods are designed to contain and exhaust potentially hazardous fumes, vapors, and gases generated during chemical experiments. They create a barrier between the experiment and the laboratory environment, preventing exposure to toxic or harmful substances. Fume hoods protect laboratory personnel from inhaling harmful chemicals or being exposed to hazardous substances.



Fumehood at Chemistry Laboratory



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(Audit Period: June 2020 to May 2021)**

**Wet Scrubber**

- 1. Reduction of Air Pollution:** Scrubbers help remove harmful gases, such as hydrogen chloride (HCl) and hydrogen fluoride (HF), from the laboratory air. By capturing these pollutants before they are released into the atmosphere, scrubbers contribute to reducing air pollution and improving indoor and outdoor air quality.
- 2. Prevention of Acid Rain Formation:** Hydrogen chloride and hydrogen fluoride emissions can contribute to the formation of acid rain when released into the atmosphere. Alkali gas scrubbers mitigate this environmental impact by removing these acidic gases from laboratory emissions before they can react with moisture in the air and contribute to acid rain formation.
- 3. Protection of Ecosystems:** Acid rain resulting from air pollution can have detrimental effects on ecosystems, including damage to vegetation, soil, aquatic habitats, and wildlife. By reducing the emission of acidic gases, alkali gas scrubbers help protect sensitive ecosystems and promote biodiversity conservation.
- 4. Minimization of Health Risks:** Hydrogen chloride and hydrogen fluoride are corrosive and toxic gases that can pose health risks to laboratory personnel and surrounding communities if released into the environment. Alkali gas scrubbers help minimize these risks by capturing and neutralizing these hazardous pollutants before they can be emitted.
- 5. Reduction of Odors:** In addition to removing acidic gases, alkali gas scrubbers can also help eliminate unpleasant odors associated with certain chemical processes in the laboratory. This improvement in air quality enhances the comfort and well-being of laboratory personnel and visitors.
- 6. Conservation of Resources:** Alkali gas scrubbers typically utilize alkaline solutions, such as sodium hydroxide (NaOH), to neutralize acidic gases. While the operation of scrubbers requires resources such as water and chemicals, their use



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contributes to the conservation of environmental resources by preventing the release of pollutants into the air and minimizing the need for remediation measures.



**Wet Gas Scrubber**



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**Tree Plantation**



University campus is full of indigenous tree and medicinal plants produce positive impact on environment.

- **Air Quality Improvement:** Trees and plants act as natural air filters, absorbing carbon dioxide (CO<sub>2</sub>) and other pollutants from the air while releasing oxygen through the process of photosynthesis. This helps improve air quality on campus, reducing the concentration of harmful gases and particulate matter and promoting a healthier environment for students, faculty, and staff.
- **Carbon Sequestration:** Trees play a crucial role in mitigating climate change by sequestering carbon from the atmosphere and storing it in their biomass. By planting trees on campus, universities can contribute to carbon sequestration efforts and help offset their carbon footprint, supporting broader sustainability goals and initiatives.
- **Temperature Regulation:** Trees provide natural shade and evapotranspiration, helping to cool the surrounding environment and reduce the urban heat island effect. By creating shaded areas and lowering ambient temperatures, trees

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contribute to energy conservation efforts by reducing the need for air conditioning and mitigating heat-related stress during hot weather.

- **Storm water Management:** The roots of trees and plants help absorb rainwater and reduce runoff, preventing soil erosion and minimizing the risk of flooding and water pollution. By incorporating green infrastructure such as rain gardens and bio swales, university campuses can effectively manage storm water runoff, improve water quality, and enhance overall watershed health.
- **Biodiversity Conservation:** Trees and plants provide habitat and food sources for various species of birds, insects, and other wildlife, contributing to biodiversity conservation on campus. By creating green corridors and natural habitats, universities support local ecosystems and promote ecological resilience in urban environments.
- **Noise Reduction:** Trees and vegetation help absorb and deflect sound waves, acting as natural buffers against noise pollution from nearby roads, buildings, and other sources. By planting trees strategically around campus buildings and outdoor spaces, universities can create quieter and more tranquil environments conducive to learning, research, and relaxation.

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**8) Audit Methodology**

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The criteria, methods and recommendations used in the audit were based on the identified risks. The methodology includes: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the document, interviewing responsible persons and data analysis, measurements and recommendations. The methodology adopted for this audit was a three-step process comprising of:

**1. Data Collection** - In preliminary data collection phase, exhaustive data collection was performed using different tools such as observation, survey communicating with responsible persons and measurements.

Following steps were taken for data collection:

- Site Visit
- Data about the general information was collected by observation and interview.
- The power consumption of appliances was recorded by taking an average value in some cases.

**2. Data Analysis** - Detailed analysis of data collected include: calculation of energy consumption, analysis of latest electricity bill of the campus, Water consumption, Waste Generation and Greenery Management.

**3. Recommendation** - On the basis of results of data analysis and observations, some steps for reducing power and water consumption were recommended. Proper treatments for waste were also suggested. Use of fossil fuels has to be reduced for the sake of community health.

The above target areas particular to the University was evaluated through questionnaire circulated among the students for data collection.

The following data collected for the following areas during the assessment.

1. Environment & Waste Management
2. Energy Management
3. Water Management

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**9) Monitoring, Observations & Recommendations**

**Ambient Air Quality Monitoring**

**Date: 12/01/2021**

<b>Location</b>	<b>PM<sub>10</sub> (µg/m<sup>3</sup>)</b>	<b>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</b>	<b>SO<sub>2</sub> (µg/m<sup>3</sup>)</b>	<b>NO<sub>2</sub> (µg/m<sup>3</sup>)</b>
AU Building Main Entrance	33.4	21.4	13.6	19.4
B/H Ashwad canteen	31.2	19.2	10.5	16.7
Nr. Bus parking	53.4	36.2	15.2	23.6
Nr. Haridarshanam Temple	57.8	39.4	19.8	25.8

**Noise Monitoring**

**Date: 12/01/2021**

<b>Location</b>	<b>Observed Value (db (A))</b>	<b>Permissible Day Time Limit (db (A))</b>
AU Building Main Entrance	45	50
B/H Ashwad canteen	43	
Nr. Bus parking	47	
Nr. Haridarshanam Temple	46	

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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water from VIP parking Area
<b>Sample collection Date</b>	12/01/2021
<b>Sample analysis date</b>	12/01/2021
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.7	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	335	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	10.4	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	35.6	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	TLTC (< 7 colonies )
<b>MacConkey Plates</b>	TLTC (< 3 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

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### Water Analysis Report

#### TEST REPORT

Sample Description	Borewell Water near Yogidham Gate 3
Sample collection Date	12/01/2021
Sample analysis date	12/01/2021
Quantity of Sample	2.5 liters

#### Test Result

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	Taste	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	Odour	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	pH	7.7	-	6.5 to 8.5	IS 3025 ( Part 11)
4	Total Dissolved Solids (TDS)	223.6	mg/l	500 max	IS 3025 ( Part 16)
5	Chloride	11.08	mg/l	250 max	IS 3025 (part 32)
6	Turbidity	<1	NTU	1.0 Max	IS 3025 (part 10)
7	Total Hardness (as CaCO <sub>3</sub> )	35.0	Mg/l	200 max	IS 3025 (part 21)

#### Microbial Analysis

Test	Observation
EMB plates	TLTC (< 5 colonies )
MacConkey Plates	No Colonies Observed
Single strength MPN broth	No Colour change, No Gas production
Double strength MPN broth	No Colour change, No Gas production



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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water near Boy's Hostel
<b>Sample collection Date</b>	12/01/2021
<b>Sample analysis date</b>	12/01/2021
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

<b>Sr. No.</b>	<b>Test Parameter</b>	<b>Results</b>	<b>Units</b>	<b>Desirable limit As per IS 10500:2012</b>	<b>Test method</b>
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.68	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	323.5	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	24.5	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	32.5	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

<b>Test</b>	<b>Observation</b>
<b>EMB plates</b>	TMTC (> 100 colonies )
<b>MacConkey Plates</b>	TMTC (> 100 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water near Temple
<b>Sample collection Date</b>	12/01/2021
<b>Sample analysis date</b>	12/01/2021
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

<b>Sr. No.</b>	<b>Test Parameter</b>	<b>Results</b>	<b>Units</b>	<b>Desirable limit As per IS 10500:2012</b>	<b>Test method</b>
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.7	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	330	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	8.10	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	54.3	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

<b>Test</b>	<b>Observation</b>
<b>EMB plates</b>	TLTC (< 5 colonies )
<b>MacConkey Plates</b>	TLTC (< 4 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Drinking Water- AU Main Building
<b>Sample collection Date</b>	12/01/2021
<b>Sample analysis date</b>	12/01/2021
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

<b>Sr. No.</b>	<b>Test Parameter</b>	<b>Results</b>	<b>Units</b>	<b>Desirable limit As per IS 10500:2012</b>	<b>Test method</b>
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5)
3	<b>pH</b>	7.70	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	145.5	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	9.6	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	12.5	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

<b>Test</b>	<b>Observation</b>
<b>EMB plates</b>	No Colonies Observed
<b>MacConkey Plates</b>	No Colonies Observed
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production



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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Drinking Water- Science Building
<b>Sample collection Date</b>	12/01/2021
<b>Sample analysis date</b>	12/01/2021
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.7	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	135.2	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	7.8	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	15.6	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	No Colonies Observed
<b>MacConkey Plates</b>	No Colonies Observed
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

\*TLTC-Too Less To Count

\* TMTC-Too Much To Count



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(Audit Period: June 2020 to May 2021)**

**Observations & Suggestions:**

1. University is situated in the heart of Rajkot city. Majority student commute by the personal vehicle. It is suggested that university should have more number of buses to promote pool commuting.
2. University have the state of the art laboratory facility for the environmental monitoring.
3. RO reject water is being utilized into the garden for the irrigation purpose. It is a very good initiative. To upgrade the water conservation one step ahead. It is recommended that university should go for the installation of sewage treatment plant.
4. University has provided separate dustbin for the recyclable and non-recyclable waste is a positive step towards the sustainability.
5. University is using the rainwater by storing it into the underground tank. It is recommended that create awareness in surrounding area about this good initiative
6. Currently biodegradable waste is being disposed by the composting. It can be upgraded to the biogas plant. This will improve resource utilization factor of waste.
7. The botanical garden is located within the campus to preserve local plat species.

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**

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**10) Certificate**




**V.V.P. ENGINEERING COLLEGE**  
**ENVIRONMENTAL AUDIT CELL, Vajdi - Virda, Kalawad Road, Rajkot**

**Environmental Audit Certificate**  
**Atmiya University, Rajkot-360005-Gujarat-India**  
For the AY (2020-21)

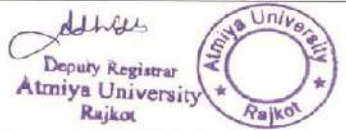
Environmental Audit for the period **June 2020 to May 2021** has been conducted for the **Atmiya University, Rajkot** to assess the green initiatives planning and efforts implemented in the college campus like Green Campus Management. This Environmental Audit is also aimed to assess eco-friendly initiatives of the Institute towards sustainability.

It is believed that the institution has presented authentic data on various aspects of working of the institute before the audit team. The recommendations are based on the data presented before the team as they existed at the audit time. This certificate is valid for the audit period only. However, it is subject to automatic cancellation in case of any change in prevailing green practice or misleading data. The findings reported in this audit report are entirely based on data furnished by the institute and data collected by the audit team during the audit. Thus, the findings reported in this audit report are strictly limited to the period when the audit was conducted.

The Environmental Quality in the campus is found **adequate and efficacious**.

<p><b>Dr. Sushil Korgaokar</b> (Recognised Schedule-I Environmental Auditor, Gujarat Pollution Control Board-GPCB – Gandhinagar, Gujarat)</p> <p>Environmental Audit Laboratory, V.V.P. Engineering College, Virda – Vajdi, Kalawad Road, Opp. Motel the Village, Rajkot-360005-Gujarat-India</p>	
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I assure that the data presented is authentic to the best of my knowledge & I agree to comply with the recommendations received this report within a year at maximum after the internal review.

<p><b>Dr. Ashish M. Kothari,</b> Dy. Registrar, Atmiya University, Rajkot-360005-Gujarat-India</p>	
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**1.6 GREEN/ ENVIRONMENT AUDIT 2021-22**

**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2021 to May 2022)**

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**Registrar**  
Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
**Rajkot**





**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2021 to May 2022)**

**1) Executive Summary**

Atmiya University established on April 13, 2018, under the Gujarat Private University Act 11, 2018, ATMIYA University emphasizes to train young minds in consonance with the doctrines of higher education and human values. The aim of this University is to spread eternal happiness and to create a happy society in letter and spirit. The motto “सुहृदंसर्वभूतानम्” (Suhardam Sarva Bhootanam) is an expression of willingness to attain harmony with each creation of the Almighty!

This environmental audit report provides a comprehensive overview of Atmiya University, located in the vibrant city of Rajkot, Gujarat. Atmiya University, a prominent educational institution in the region, serves as a dynamic center for higher education, offering a diverse range of undergraduate, postgraduate, and doctoral programs. Established with a vision ‘To nurture creative thinkers and leaders through transformative learning’ and committed to create a transformative learning experience by imbibing domain specific knowledge & wisdom and to focus on research based teaching learning with Industry relevant application knowledge. The university plays a crucial role in shaping the region’s educational landscape.

Situated in an urban setting, Atmiya University benefits from excellent connectivity and accessibility within the Rajkot area. The campus spans approximately 23.5 acre and features modern infrastructure that includes state-of-the-art classrooms, research labs, libraries, recreational facilities, and green spaces that enhance the learning environment.

The university accommodates a diverse and vibrant community from various parts of India and beyond. This thriving student body is supported by a faculty dedicated to promoting sustainable practices on campus, aligning with Atmiya University’s mission to minimize its environmental impact.

A satellite image of the campus highlights its strategic layout and showcases the integration of natural and built environments, offering a visual perspective on the university’s physical footprint within the urban landscape. This audit aims to evaluate Atmiya University’s environmental practices and suggest actionable steps to enhance sustainability, further aligning with global standards in environmental responsibility and conservation.



**Environmental Audit & Consultancy Cell,  
V.V.P. Engineering College, Rajkot**

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Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2021 to May 2022)**

**2) Acknowledgment**

On behalf of the Environmental Audit & Consultancy Cell at **V.V.P. Engineering College, Rajkot**, we would like to express our sincere gratitude to the management of **Atmiya University, Rajkot** for entrusting us with the important task of conducting their Environmental Audit/Green Audit.

We deeply appreciate the cooperation extended by your team throughout the assessment process. This cooperation was instrumental in the successful completion of the audit.

We would also like to extend our special thanks to **Dr. Ashish Kothari, Deputy Registrar, Atmiya University** for their unwavering support. Their dedication proved to be invaluable in ensuring the project's completion. Finally, we thank all other staff members who actively participated in data collection and field measurements. Their contributions were essential to the smooth execution of the audit.

We are also thankful to:

SN	Name	Designation
1	Er. Ravi S. Tank	Chemical Engineer
2	Dr. Hemantkumar G. Sonkusare	Civil Engineer
3	Dr. Anilkumar S. Patel	Chemist

In closing, we would like to express our gratitude to **Dr. Shiv Tripathi, Vice Chancellor, Atmiya University** for extending the opportunity to evaluate their esteemed campus's environmental performance.

**Registrar**  
Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
**Rajkot**

**Environmental Audit & Consultancy Cell,  
V.V.P. Engineering College, Rajkot**







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(Audit Period: June 2021 to May 2022)**

**3) Disclaimer**

This Green Audit report has been prepared by the Environmental Audit Cell at V.V.P. Engineering College, Rajkot for of Atmiya University, Rajkot. It incorporates data submitted by University officials/representatives along with expert analysis by the EA&CC Audit team.

While all reasonable efforts have been made to ensure its accuracy, the report is based on information gathered in good faith. Conclusions are based on best estimates and do not constitute any express or implied warranty or undertaking. The EA&CC at Atmiya University, Rajkot assumes no responsibility for any direct or consequential loss arising from the use of the information, statements, or forecasts in this report.

The findings presented in this report are based entirely on data provided by Atmiya University and gathered by the audit team during their audit & monitoring visit. It assumes normal operating conditions within the institution throughout the audit period. The auditors are unable to comment on environmental audit parameters outside the scope of the on-site surveys. Consequently, the report's findings are strictly limited to the timeframe during which the audit team conducted its assessment.

The Environment Audit Cell at V.V.P. Engineering College, Rajkot, maintains strict confidentiality regarding all information pertaining to Atmiya University. No such information will be disclosed to any third party except public domain knowledge or when required by law or relevant accreditation bodies.

This certificate is valid solely for the current Environmental Audit/Green Audit report. It may be automatically revoked if any significant changes occur in the quantity or quality of waste generation at the aforementioned institute.

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**4) Introduction**

Since the 2019-20 academic year, the National Assessment and Accreditation Council (NAAC) requires all Higher Educational Institutions (HEIs) to submit an annual Environmental Audit/Green Audit report. This requirement falls under Criterion 7 of the NAAC accreditation process, which evaluates institutions for their environmental sustainability practices. NAAC, an autonomous body in India, assigns accreditation grades (A, B, or C) based on various criteria, including environmental stewardship.

Furthermore, conducting Environmental Audit/Green Audits aligns with the Corporate Social Responsibility (CSR) initiatives of HEIs. By implementing measures to reduce their carbon footprint, institutions contribute positively to mitigating global warming.

In response to the NAAC mandate, the University management opted for an external Environmental Audit/Green Audit conducted by a qualified professional auditor.

Environmental Audit/Green Audit entails a comprehensive environmental assessment, examining both on-campus and off-campus practices that directly or indirectly impact the environment. In essence, it is a systematic process of identifying, quantifying, recording, reporting, and analysing environmental aspects within the institute setting.

Environmental Audit/Green Audits originated as a tool to evaluate institutional activities that might pose risks to human health and the environment. It provides valuable insights for improvement, guiding institutions towards environmentally responsible practices and infrastructure.

The specific areas covered by this audit include Green Campus initiatives, Waste Management, Water Management, Air Pollution Control, Energy Management, and Carbon Footprint reduction strategies employed by the University.

The following sections delve deeper into the concept, structure, objectives, methodology, analytical tools, and overall goals of this Green Audit.

Educational institutions are increasingly prioritizing environmental concerns. As a result, innovative concepts are emerging to make campuses more sustainable and eco-friendly. Numerous institutions are adopting various approaches to address environmental challenges within their facilities, such as promoting

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energy conservation, waste recycling, water use reduction, and rainwater harvesting.

The activities of educational institutions can have both positive and negative environmental impacts. A Green Audit is a formal evaluation process that assesses the University's environmental footprint. It provides a comprehensive picture of the current environmental conditions on campus.

Green Audits are a valuable tool for Universities to identify areas of high energy, water, or resource consumption. This allows institutions to implement targeted changes and achieve cost savings. Additionally, Green Audits can analyse the nature and volume of waste generated, leading to improved recycling programs or waste minimization plans.

Green auditing and the implementation of mitigation measures offer a win-win scenario for institutions, students, and the environment. It can foster health and environmental awareness, promoting values and beliefs that benefit everyone. Green Audits also provide an opportunity for staff and students to gain a deeper understanding of the impact their institution has on the environment.

Furthermore, Green Audits can translate into financial savings by encouraging a reduction in resource usage. This process also empowers students and teachers to develop a sense of ownership for personal and social environmental responsibility.

The Green Audit process typically involves collecting primary data, conducting a site visit with University representatives, and reviewing relevant policies, activities, documents, and records.

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**OBJECTIVE AND SCOPE**

The broad aims/benefits of the Environmental Audit/Green Audit would be

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Sustainable use of natural resource in the campus.
- Financial savings 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
- Enhancement of University profile
- Developing an environmental ethic and value systems in young people

**Outcomes OF ENVIRONMENT AUDIT TO EDUCATIONAL INSTITUTIONS**

There are many advantages of environment audit to an Educational Institute:

1. Protect the environment in and around the campus.
2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Empower the organization to frame a better environmental performance.
4. Portrays good image of institution through its clean and green campus.

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## 5) Environmental Policy



# ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act II, 2016)  
Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

### Environment and Sustainability Policy for Green Campus

Atmiya University recognizes the critical importance of environmental sustainability and its role in minimizing ecological footprints. Guided by its commitment to the principles of conservation and harmony with nature, the university adopts this Policy to integrate environmental awareness and sustainable practices into its daily academic and administrative operations, education, and community engagement. This policy reflects the university's dedication to fostering a sustainable future.

#### Objective

Atmiya University strives to establish a clean, green, and sustainable campus by:

- Developing, monitoring, and evaluating a policy to guide green campus initiatives.
- Reducing the ecological footprint through sustainable practices.
- Educating students and staff on environmental issues and on building harmony with nature & mother earth to create a healthier, sustainable future.
- Promoting innovative environmental practices to enhance sustainability performance.
- Strengthening an environmentally responsible culture across curricular and extracurricular activities.
- Addressing local and regional environmental challenges with sustainable solutions.
- Ensuring sustainable resource use and minimizing wasteful practices.
- Protecting biodiversity and reducing environmental pollution.

#### Environmental Goals and Targets

The university sets specific goals such as reducing energy consumption, minimizing waste generation, conserving water, managing/recycling/disposal of waste, and promoting biodiversity to enhance its sustainability initiatives.

#### Key Focus Areas

1. **Clean Campus Initiatives:** Regular cleaning drives, waste segregation, and beautification projects.



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2. **Green Energy:** Installing renewable energy sources to reduce dependency on non-renewable energy sources.
3. **Landscaping and Biodiversity:** Developing green spaces, planting neem trees, and conserving biodiversity.
4. **Energy Efficiency:** Installing energy-efficient appliances, natural lighting, and ventilation.
5. **Water Conservation:** Using rainwater harvesting systems, low-flow fixtures, and RO wastewater recycling.
6. **Waste Management:** Segregating solid, liquid, e-waste, and bio-waste for recycling and composting.
7. **Transportation and Mobility:** Promoting biking, carpooling, e-vehicles, and public transit.
8. **Green Building Standards:** Incorporating eco-friendly designs in construction and renovation projects.
9. **Curriculum Integration:** Courses on SDG awareness and environmental science across all disciplines.
10. **Community Engagement:** Conducting workshops, seminars, and outreach programs on environmental topics.

### Key Practices

#### 1. Energy Efficiency

- Transition to energy-efficient devices and systems.
- Encourage behaviour changes for energy conservation.
- Promote renewable energy solutions like solar and biogas.

#### 2. Waste Management and Recycling

- Comprehensive waste management with dedicated recycling and composting units.
- Initiatives like Parivartan (Paper Recycling Unit) and Sarjan (Agricultural Waste Recycling Unit) to create sustainable products.

#### 3. Water Conservation

- Installation of rainwater harvesting systems and reservoirs with a 17 lakh-litre capacity.
- Xeriscaping and responsible water usage to reduce dependency on municipal water.



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### 4. Biodiversity and Green Spaces

- Develop gardens, tree plantations, and outdoor educational spaces to promote biodiversity.
- Integrate sustainable farming practices using Panchgavya and Jivamrut fertilizers.

### 5. Transportation and Mobility

- Establish e-vehicle charging stations, bike racks, and pedestrian-friendly paths.

### 6. Education and Awareness

- Organize campaigns like Use Solar-Save Nature, Save Energy-Water and tree plantation drives.
- Include sustainability topics in the curriculum to foster awareness and innovation.

### Implementation and Monitoring

- **Incentives and Recognition:** Reward active participants in sustainability efforts.
- **Budget and Funding:** Allocate resources for projects and seek grants for sustainability initiatives.
- **Compliance and Legal Adherence:** Ensure alignment with relevant environmental laws and regulations.
- **Periodic Review:** Monitor the policy's impact and revise based on feedback and emerging challenges.

### Conclusion

Adopting this Policy highlights Atmiya University's unwavering commitment to environmental stewardship and sustainable development. By fostering a culture of awareness and proactive participation, the university aspires to create a greener and healthier campus, setting a benchmark for future generations. Together, we will build a resilient and sustainable future.



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**6) General Information**

- a. Does any Green Audit conducted earlier? **Yes**
- b. Total Area of the University = 84455 m<sup>2</sup>
- c. What is the total strength (people count) of the Institute?

AY	Students			Teaching Staff			Non-Teaching Staff			Total		
	M	F	Trans	M	F	Trans	M	F	Trans	M	F	Trans
2021-2022	3952	2307	0	180	101	0	203	24	0	4308	2432	0

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

Month (AY- 2021-2022)	No. of Working Days
June	26
July	25
August	21
September	25
October	24
November	14
December	26
January	24
February	24
March	24
April	25
May	25
<b>Total</b>	<b>283</b>

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**e. Which of the following are found near your institute?**

Municipal dump yard	No
Garbage heap	No
Public convenience	Yes
Sewer line	Yes
Stagnant water	No
Industry	No
Bus / Railway station	Yes
Market / Shopping complex	Yes
Play Ground	Yes

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

Type of waste	Response	Detail(s) of Waste Generated	Quantity of Waste Generated (kg)	
Solid	Biodegradable	Yes	Gardening, Cow dung	175
	Non-biodegradable	Yes	Sweeping waste,	10
	e-waste	Yes	Computer, Battery	498
Liquid	Yes	Kitchen Waste	35	
Gas	No	--	--	

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

- Composting: Gardening and cow dung waste used to make compost.
- Non-recyclable and non biodegradable waste disposal is managed by the Rajkot Municipal Corporation.

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**h. Do you use recycled paper in institute? Yes**

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

Poster competition activities	<b>Yes</b>
Campaigns	<b>Yes</b>
Webinars and seminars	<b>Yes</b>

**j. Is there a garden in your institute?**

<b>Garden</b>	<b>Yes</b>	<b>Area = 6732.26m<sup>2</sup></b>
---------------	------------	------------------------------------

**k. Total number of Plants in Campus?**

SN	Namepd Species	Numbers
1	Neem Tree	211
2	Lemon cypress	1
3	FicusMicrocapra	100
4	Hedge Plant	01
5	Tajplantshub dracaena	01
6	Crown of Throns	01
7	Spanish Moss (TilandsiaUsneoides)	10
8	Ruellia simplex	51
9	FagusSylvatica plant	01
10	Euphorbia Tithymaloides	11
11	Weeping Fig	685
12	LysilomaWatsonil	01
13	Royal Palm	38
14	Bamboo	230

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15	Moringa	01
16	Acalyphawilkesiana	300
17	Dracaena Angustifolia	11
18	<i>Polysciasscutellaria</i>	04
19	<u>Cordylinafruticosa</u>	40
20	Dracaena Reflexa	500
21	Garden Croton	01
22	polysciasguilfoylei	10
23	Oyster Plant (tradescantiazebrina)	300
24	Lonicerapileata	50
25	Saribusrotundifolius	10
26	Ixora	10
27	Hyophorbelagenicaulis	20
28	Purple heart	150
29	Yellow cosmos (sulphur cosmos)	100
30	Canna discolor	15
31	Durantaerecta	1100
32	Pritchardiapacifica	11
33	Capparissandwichiana	50
34	Nerium Oleander	10
35	Casuarinaequisetifolia	20
36	Caryotaurens	2
37	Areca palm	20

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38	Ravenala	10
39	Iresineherbstii	300
40	Sago Plam	22
41	Sphgneticolatrilobata	1500
42	Thuja	24
43	Dracaena trifasciata	62
44	Ponytail Palm	2
45	Asparagus densiflorus	50
46	Alocasiazebrina	02
47	Bismarck palm	8
49	Lotus	100
50	Catharanthus	50
51	Padavati Jasmin	50
52	Caryotamitis	04
53	Monoonlongifolium	3
54	Breyniadicisticha	50
55	PlumeriaObtusa	10
56	Alovera	100
57	Century Plant	30
58	Sweet osmanthus	1
59	Crinum asiaticum	27
60	Diantherapectoralis	200
61	Hibiscus	10

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62	Ficusaspera	5
63	Mulberry tree	10
64	Barbary fig	5
65	Dracaena angolensis	2
66	Terminaliachebula plant	2
67	Nettlespurges	2
68	Yellow elder	2
69	MadhucaLongifolia	2
70	Eucalyptus globulus.	1
71	Melicoccusbijugatus	1
72	Casuarinaequisetifolia	1
73	Indian jujube	5
74	Tulsi	50
75	Coconut palm tree	8
76	Calotropisgigantea	1
77	Persian Silk	5
78	Mango tree	1
79	Curry Tree	4
80	Punicagranatum	5
81	Pandanusveitchii	50
82	Streblusasper	5
<b>Total</b>		<b>6859</b>



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**I. List uses of water in your institute**

<b>Basic use of water in campus</b>	<b>KL/Day</b>
Drinking	15
Gardening	16
Kitchen and Toilets	20
Others	15
Hostel	29
<b>Total</b>	<b>95 KL/Day</b>

**m. Electricity Consumed**

<b>Month (Academic Year 2021-2022)</b>	<b>Electricity Consumed (kWh)</b>
June	1,27,441
July	1,23,038
August	1,37,624
September	1,30,520
October	2,05,468
November	1,31,539
December	1,23,882
January	1,19,806
February	1,08,850
March	1,26,729
April	1,67,857
May	1,73,992
<b>Total</b>	<b>16,76,746</b>

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

Building	SN	Tank Description	Size (liter)	No. of Tank	Capacity (liter)
AU Building	1	Raw Water- A Wing	2500	4	10000
	2	Raw Water- B Wing	2500	4	10000
	3	Master RO - Raw Water	5000	3	15000
	4	RO Water Tank	2500	7	17500
	5	Pharmacy and Mechanical Lab	2000	1	2000
	6	Faculty Block (A& B Wing)	2500	2	5000
	7	Library Terrace	2000	1	2000
	8	Raw Water Near AU Building- Underground	275000	1	275000
MPAB	9	RO Water - at Terrace	2000	2	4000
	10	Raw Water- at Terrace	60000	1	60000
	11	Raw Water- at Terrace	40000	7	280000
	12	Near Building- Undrground	333746	2	667492
	13	Near Building- Undrground	336826	2	673652
	14	Below Temple- Underground	189924	1	189924
	15	Below Temple- Underground	43718	1	43718
	16	In Front of Store- Underground	123604	1	123604

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Workshop	17	RO Water- at Terrace	2000	1	2000
	18	Raw Water- at Terrace	2000	2	4000
	19	Raw Warer- at Terrace	5000	1	5000
	20	Behind Workshop- Round Tank- Underground	45650	1	45650
Science Building	21	RO Water- at Terrace	2500	1	2500
	22	Raw Water Tank- at Terrace	23300	2	46600
	23	Raw Water Tank- Ladies Toilet	30000	3	90000
	24	CIF Lab	1500	1	1500
	25	Raw Water- OTIS- Underground	32620	1	32620
	26	Wastewater- Outside the Building	2000	1	2000
Yogidham Gate	27	Raw Water Tank- Underground	48750	4	195000
Niramay	28	RO Water Tanki at Terrace	2500	1	2500
	29	Raw Water Tank- at Terrace	11650	1	11650
	30	Raw Water Tank- Near Office	5000	2	10000
Sarva naman	31	Raw Water Tank- at Terrace	2000	1	2000
	32	Raw Water Tank- at Terrace	8550	1	8550
	33	Raw Water- inside building	600	1	600
<b>Total Water Storage Capacity</b>					<b>28,41,060</b>

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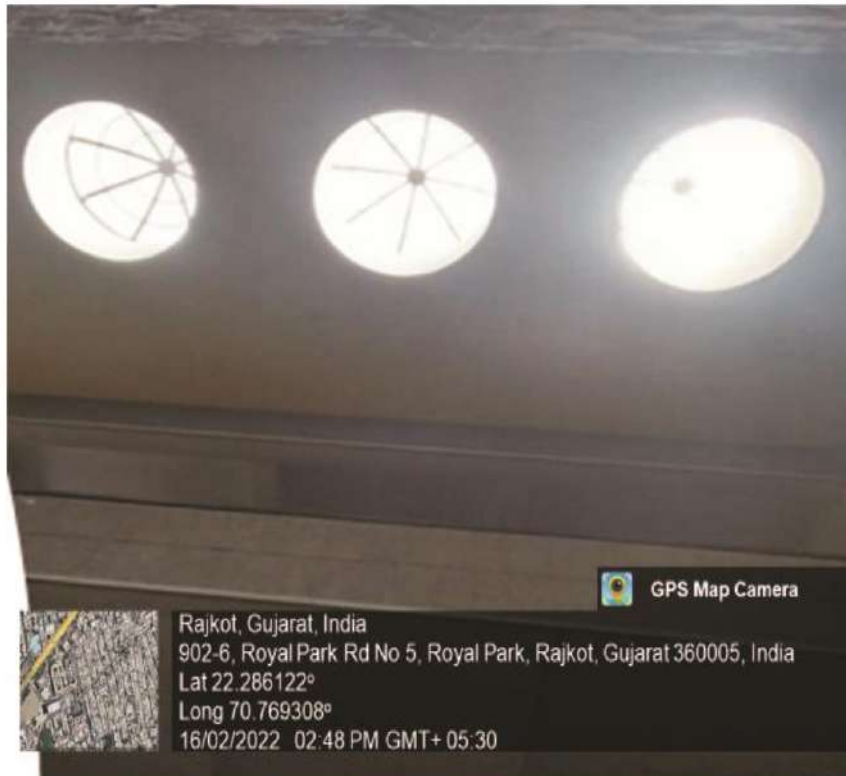


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**7) Green Initiatives By the Institute**

**Green Architecture**

The incorporation of green architecture principles in academic institutions not only reduces environmental impact but also fosters a healthier and more inspiring learning environment for students and faculty alike. By integrating features such as passive solar design, natural ventilation, and green roofs, these institutions showcase a commitment to sustainability while promoting innovation and awareness of eco-friendly design practices within the academic community.



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**Natural Light and Ventilation in Academic Building**

**Impact:**

- Low artificial lighting requirements
- Energy consumption optimization
- Low green house gas emission
- Low level of strain to Eyes

**Campus Biodiversity**

A thriving campus biodiversity in academic institutions is not merely a reflection of ecological health but also serves as a testament to the institution's commitment to sustainability and environmental stewardship. It provides a living laboratory for students to engage with nature firsthand, fostering a deeper understanding of ecological systems and instilling a sense of responsibility towards conservation. Beyond its educational value, a biodiverse campus offers numerous benefits such as improved air and water quality, enhanced aesthetics, and increased resilience to environmental stressors. It becomes a sanctuary for wildlife, contributing to the preservation of local ecosystems and biodiversity at large. Atmiya University campus is a rich in the biodiversity with the full of greenery and in house terrace garden.



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**Glimpse of Flora at University Campus**

**Gaushala at Campus**

- 14 Indian Breed Cow
- 01 Bull
- State of the art facilities
- Value addition cow urine for herbal and fertilizer utilization
- Decorative products are being made from the cow dung.
- Jivamrut fertilizer being used in the campus is a product of gaushala.
- It contributes to maintain the organic carbon content in the campus soil as it provides the raw material for the compost.

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**Satyakam Gaushala**

It provides students with firsthand experience in animal care, veterinary science, and sustainable agriculture. They can learn about the importance of cows in Indian culture, their significance in agriculture, and sustainable farming practices.

Gaushalas contributes to the eco-friendly practices like composting cow dung for fertilizer, using biogas for cooking which can serve as models for sustainable living and agriculture.

In Indian cultures, cows are revered as sacred animals. Having a gaushala on campus can help preserve and promote this cultural heritage among students and the community.

Universities can conduct research on various aspects of cow rearing, including breeding, nutrition, and healthcare. This research can contribute to advancements in animal science and agriculture.

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Cows play a crucial role in maintaining soil fertility through their dung, which is rich in nutrients. By managing cow waste effectively, gaushalas can contribute to soil health and environmental conservation.

**Solid Waste Management**

**Natural Fertilizer from Organic Waste**

**Jivamrut (Natural Fertilizer)**

Installation Detail:

- Year: 2008
- Place: at boys parking
- Process: Collect neem leaves form campus and added with cow dung, cow urine and Earthworms

**Amrut Soil**

- Ingredients for AmrutMitti range from cow dung, cow urine, biomass like dry and decayed leaves, household kitchen waste like vegetable peels.
- AmrutSoil is full of all nutrients needed by plants, is very rich in variety of microbes, has the right pH, has high carbon content, has excellent water holding capacity.
- Mixing Cow dung, cow urine and jaggery
- Immersing dry biomass in Amrutjal kept in drums
- Process take at least 1 month
- Use as garden fertilizer.

**Impact:**

- Applied in garden as fertilizer
- Improve soil micro-biota of campus soil
- Less usages of chemical fertilizer

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Amrut Soil and Jivamrut Plant

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**Municipal Solid Waste Segregation Bin**



**Separate Dustbin for Recyclable and Non-Recyclable Waste**

University campus having more the 100 solid waste collection dustbin design for the proper waste segregation. Waste paper is recycled at the in-house paper recycling facility and converted into the filter paper, envelope and other artistic and decorative products.

Having separate bins encourages people to sort their waste, making it easier to recycle materials such as paper, plastic, glass, and metal. This promotes a culture of recycling and reduces the amount of waste sent to landfills or incinerators.

Recycling materials reduces the need for raw materials, energy, and water required to manufacture new products. This conserves natural resources and reduces the environmental impact associated with extraction, processing, and transportation.

Implementing separate bins provides an opportunity for educational initiatives on waste management, recycling, and environmental stewardship. Students, faculty, and staff can learn about the importance of recycling and how their actions contribute to sustainability.

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**Paper Recycling Unit**

In embracing the principles of the circular economy, Atmiya university is pioneer in sustainable practices such as paper recycling, ensuring that resources are reused and regenerated rather than disposed of after single use. By implementing robust paper recycling programs, these institutes not only reduce waste and environmental impact but also cultivate a culture of resource efficiency and responsible consumption among students, faculty, and staff.

Recycling paper can lead to cost savings for the university by reducing waste disposal fees and the need to purchase new paper products. This can free up financial resources that can be allocated to other campus initiatives or projects.



**Parivartan- Paper Recycling Plant**



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**Food Waste Management**

The food waste generated inside the campus is diverted to a composting Plant on a daily basis. An average of 25 kilos of food waste is generated per day. The compost generated from the organic waste composter machine is being used for gardening purpose within the campus. The excess waste is being collected by nearby farmer to make the compost.



**ORCO Organic Waste Composter Machine**



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**Plastic Water Bottle Recycling Plant**

University have installed water bottle recycling plant at entrance for all stakeholders having capacity of 20 kg/day

A bottle crusher helps reduce the volume of plastic bottles, thereby decreasing the amount of plastic waste generated on campus. This contributes to waste reduction efforts and helps minimize the environmental impact of plastic pollution.

By providing a convenient way to crush plastic bottles, the crusher encourages recycling behavior among students, faculty, and staff. It reinforces the importance of recycling and helps divert plastic waste from landfills or incinerators.

Plastic pollution poses significant threats to ecosystems, wildlife, and human health. By reducing plastic waste through recycling, a bottle crusher helps protect the environment and minimize the adverse effects of plastic pollution on marine life, terrestrial habitats, and waterways.



**Plastic Bottle Crusher Machine**

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**Energy Conservation Measures**

**Renewable Power Generation**

The adoption of solar rooftop systems in Atmiya university significantly reduces carbon emissions, contributing to a cleaner and more sustainable environment while serving as a tangible demonstration of the institute's commitment to renewable energy and climate action. Additionally, the integration of solar rooftops enhances the educational experience by providing real-world examples of sustainable technology, inspiring students to explore and innovate in the field of renewable energy. Atmiya University having fully operational solar rooftop electricity generation capacity as per the vision of the government.



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**Rooftop Solar Plant  
Renewable Power Generation per Month**

<b>Month &amp; Year</b>	<b>RE Cultivation in KWh</b>
Jun-21	20,781
Jul-21	9,458
Aug-21	8,619
Sep-21	0
Oct-21	37,696
Nov-21	43,792
Dec-21	39,408
Jan-22	48,137
Feb-22	55,776
Mar-22	47,232
Apr-22	36,176
May-22	35,568
<b>Total</b>	<b>3,82,643 WKh</b>



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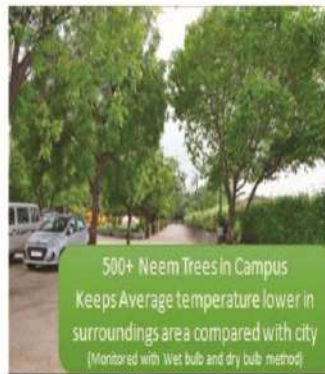
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**Energy Efficient Electrical Appliances**

Energy-efficient infrastructure in institutions not only lowers operational costs but also serves as a beacon of sustainable practices, showcasing the institution's dedication to environmental stewardship and responsible resource management. By implementing measures such as LED lighting, efficient HVAC systems, and smart building technologies, these institutions demonstrate leadership in sustainability while providing a conducive learning environment for students and faculty.



Use of LED bulbs in Entire Campus area for Power Saving  
Sensor-based energy conservation



500+ Neem Trees in Campus  
Keeps Average temperature lower in surroundings area compared with city  
(Monitored with Wet bulb and dry bulb method)



Energy Efficient Computers With LED screen for power saving



Power Efficient Equipment –  
5 Star Rated Appliances/ Equipment



LED lights for Power saving

**LED Lighting and 5 Star Rated Appliances**





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**Water Management**

Water conservation is a key activity as water availability affects on the development of the campus as well as on all area of development such as farming, industries, etc. Keeping this view water conservation activity is carried out.

**Sources of Water**

- Rainwater Harvesting
- Bore water
- A Main source of water is RMC connection and Ground water is extracted to fulfill the requirement. The University stores the water in overhead tank.

**Sewage Disposal Facility**

Atmiya University is situated in the municipal area of Rajkot. RMC (Rajkot Municipal Corporation) provides municipal facilities to the university. Sewage is being disposed in the sewerage network of Rajkot city.

**RO Plant**

RO plants provide clean and safe drinking water by removing contaminants, such as bacteria, viruses, and dissolved solids, from the water. This ensures that students, faculty, and staff have access to safe drinking water, promoting better health and well-being. With access to clean drinking water on campus, there is less reliance on bottled water. This can lead to a significant reduction in plastic waste generated by the university, contributing to environmental sustainability efforts.



**Reverse Osmosis Plant for Drinking Water**



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**Rainwater Harvesting**

**Capacity : 12 Lac Liters**

**Environmental Benefits:** By reducing the demand for potable water and minimizing stormwater runoff, rainwater harvesting contributes to environmental conservation efforts. It helps preserve freshwater resources, protects aquatic ecosystems, and mitigates the impacts of urbanization on natural hydrological cycles.

**Water Conservation:** Rainwater harvesting reduces reliance on traditional water sources by collecting and storing rainwater for various uses, such as irrigation, flushing toilets, and landscape maintenance. This helps conserve freshwater resources and reduces the strain on municipal water supplies, especially during periods of drought or water scarcity.



**Rainwater Harvesting Tank**



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**Air Pollution Control Measures**

**Acidic Fume Suction Panel**

Laboratory of chemistry department is equipped with the vapour suction panel mounted on the platform. It collects the hazardous gas and channelizes it to the wet scrubber for the neutralizing before discharge into the atmosphere.



**Acidic Fume Suction Panel**



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**Fume Hood at Chemistry laboratory**

Fume hoods are designed to contain and exhaust potentially hazardous fumes, vapors, and gases generated during chemical experiments. They create a barrier between the experiment and the laboratory environment, preventing exposure to toxic or harmful substances. Fume hoods protect laboratory personnel from inhaling harmful chemicals or being exposed to hazardous substances.



Fumehood at Chemistry Laboratory



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**Wet Scrubber**

- 1. Reduction of Air Pollution:** Scrubbers help remove harmful gases, such as hydrogen chloride (HCl) and hydrogen fluoride (HF), from the laboratory air. By capturing these pollutants before they are released into the atmosphere, scrubbers contribute to reducing air pollution and improving indoor and outdoor air quality.
- 2. Prevention of Acid Rain Formation:** Hydrogen chloride and hydrogen fluoride emissions can contribute to the formation of acid rain when released into the atmosphere. Alkali gas scrubbers mitigate this environmental impact by removing these acidic gases from laboratory emissions before they can react with moisture in the air and contribute to acid rain formation.
- 3. Protection of Ecosystems:** Acid rain resulting from air pollution can have detrimental effects on ecosystems, including damage to vegetation, soil, aquatic habitats, and wildlife. By reducing the emission of acidic gases, alkali gas scrubbers help protect sensitive ecosystems and promote biodiversity conservation.
- 4. Minimization of Health Risks:** Hydrogen chloride and hydrogen fluoride are corrosive and toxic gases that can pose health risks to laboratory personnel and surrounding communities if released into the environment. Alkali gas scrubbers help minimize these risks by capturing and neutralizing these hazardous pollutants before they can be emitted.
- 5. Reduction of Odors:** In addition to removing acidic gases, alkali gas scrubbers can also help eliminate unpleasant odors associated with certain chemical processes in the laboratory. This improvement in air quality enhances the comfort and well-being of laboratory personnel and visitors.
- 6. Conservation of Resources:** Alkali gas scrubbers typically utilize alkaline solutions, such as sodium hydroxide (NaOH), to neutralize acidic gases. While the

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operation of scrubbers requires resources such as water and chemicals, their use contributes to the conservation of environmental resources by preventing the release of pollutants into the air and minimizing the need for remediation measures.



**Wet Gas Scrubber**



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**Tree Plantation**



**Greenery at Atmiya University Campus**

University campus is full of indigenous tree and medicinal plants produce positive impact on environment.

- **Air Quality Improvement:** Trees and plants act as natural air filters, absorbing carbon dioxide (CO2) and other pollutants from the air while releasing oxygen through the process of photosynthesis. This helps improve air quality on campus, reducing the concentration of harmful gases and particulate matter and promoting a healthier environment for students, faculty, and staff.
- **Carbon Sequestration:** Trees play a crucial role in mitigating climate change by sequestering carbon from the atmosphere and storing it in their biomass. By planting trees on campus, universities can contribute to carbon sequestration efforts and help offset their carbon footprint, supporting broader sustainability goals and initiatives.
- **Temperature Regulation:** Trees provide natural shade and evapotranspiration, helping to cool the surrounding environment and reduce the urban heat island effect. By creating shaded areas and lowering ambient temperatures, trees



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contribute to energy conservation efforts by reducing the need for air conditioning and mitigating heat-related stress during hot weather.

- **Storm water Management:** The roots of trees and plants help absorb rainwater and reduce runoff, preventing soil erosion and minimizing the risk of flooding and water pollution. By incorporating green infrastructure such as rain gardens and bio swales, university campuses can effectively manage storm water runoff, improve water quality, and enhance overall watershed health.
- **Biodiversity Conservation:** Trees and plants provide habitat and food sources for various species of birds, insects, and other wildlife, contributing to biodiversity conservation on campus. By creating green corridors and natural habitats, universities support local ecosystems and promote ecological resilience in urban environments.
- **Noise Reduction:** Trees and vegetation help absorb and deflect sound waves, acting as natural buffers against noise pollution from nearby roads, buildings, and other sources. By planting trees strategically around campus buildings and outdoor spaces, universities can create quieter and more tranquil environments conducive to learning, research, and relaxation.

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**8) Audit Methodology**

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The criteria, methods and recommendations used in the audit were based on the identified risks. The methodology includes: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the document, interviewing responsible persons and data analysis, measurements and recommendations. The methodology adopted for this audit was a three-step process comprising of:

**1. Data Collection** - In preliminary data collection phase, exhaustive data collection was performed using different tools such as observation, survey communicating with responsible persons and measurements.

Following steps were taken for data collection:

- Site Visit
- Data about the general information was collected by observation and interview.
- The power consumption of appliances was recorded by taking an average value in some cases.

**2. Data Analysis** - Detailed analysis of data collected include: calculation of energy consumption, analysis of latest electricity bill of the campus, Water consumption, Waste Generation and Greenery Management.

**3. Recommendation** - On the basis of results of data analysis and observations, some steps for reducing power and water consumption were recommended. Proper treatments for waste were also suggested. Use of fossil fuels has to be reduced for the sake of community health.

The above target areas particular to the University was evaluated through questionnaire circulated among the students for data collection.

The following data collected for the following areas during the assessment.

1. Environment & Waste Management
2. Energy Management
3. Water Management

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**9) Monitoring, Observations & Recommendations**

**Ambient Air Quality Monitoring**

**Date: 16/02/2022**

<b>Location</b>	<b>PM<sub>10</sub> (µg/m<sup>3</sup>)</b>	<b>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</b>	<b>SO<sub>2</sub> (µg/m<sup>3</sup>)</b>	<b>NO<sub>2</sub> (µg/m<sup>3</sup>)</b>
AU Building Main Entrance	43.4	23.4	14.1	23.1
B/H Ashwad canteen	46.3	26.2	13.2	20.3
Nr. Bus parking	63.5	39.2	17.7	26.1
Nr. Haridarshanam Temple	61.7	41.3	20.5	28.6

**Noise Monitoring**

**Date: 16/02/2022**

<b>Location</b>	<b>Observed Value (db (A))</b>	<b>Permissible Day Time Limit (db (A))</b>
AU Building Main Entrance	48	50
B/H Ashwad canteen	47	
Nr. Bus parking	49	
Nr. Haridarshanam Temple	45	



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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water- VIP Parking Area
<b>Sample collection Date</b>	16/02/2022
<b>Sample analysis date</b>	16/02/2022
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.7	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	334	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	10.5	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	88.0	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	TLTC (< 7 colonies )
<b>MacConkey Plates</b>	TLTC (< 3 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water - NearYogidham Gate 3
<b>Sample collection Date</b>	16/02/2022
<b>Sample analysis date</b>	16/02/2022
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

<b>Sr. No.</b>	<b>Test Parameter</b>	<b>Results</b>	<b>Units</b>	<b>Desirable limit As per IS 10500:2012</b>	<b>Test method</b>
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.7	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	320.0	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	11.8	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	68.5	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

<b>Test</b>	<b>Observation</b>
<b>EMB plates</b>	TLTC (< 5 colonies )
<b>MacConkey Plates</b>	No Colonies Observed
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production



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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water near Boy's Hostel
<b>Sample collection Date</b>	16/02/2022
<b>Sample analysis date</b>	16/02/2022
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	Taste	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	Odour	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	pH	7.7	-	6.5 to 8.5	IS 3025 ( Part 11)
4	Total Dissolved Solids (TDS)	318.8	mg/l	500 max	IS 3025 ( Part 16)
5	Chloride	23.2	mg/l	250 max	IS 3025 (part 32)
6	Turbidity	<1	NTU	1.0 Max	IS 3025 (part 10)
7	Total Hardness (as CaCO <sub>3</sub> )	36.5	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
EMB plates	TMTC ( > 100 colonies )
MacConkey Plates	TMTC ( > 100 colonies )
Single strength MPN broth	No Colour change, No Gas production
Double strength MPN broth	No Colour change, No Gas production

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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water near Temple
<b>Sample collection Date</b>	16/02/2022
<b>Sample analysis date</b>	16/02/2022
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

<b>Sr. No.</b>	<b>Test Parameter</b>	<b>Results</b>	<b>Units</b>	<b>Desirable limit As per IS 10500:2012</b>	<b>Test method</b>
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.8	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	330	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	8.1	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	32.5	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

<b>Test</b>	<b>Observation</b>
<b>EMB plates</b>	TLTC (< 5 colonies )
<b>MacConkey Plates</b>	TLTC (< 4 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production



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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Drinking Water- AU Main Building
<b>Sample collection Date</b>	16/02/2022
<b>Sample analysis date</b>	16/02/2022
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	Taste	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	Odour	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	pH	7.6	-	6.5 to 8.5	IS 3025 ( Part 11)
4	Total Dissolved Solids (TDS)	126	mg/l	500 max	IS 3025 ( Part 16)
5	Chloride	19.77	mg/l	250 max	IS 3025 (part 32)
6	Turbidity	<1	NTU	1.0 Max	IS 3025 (part 10)
7	Total Hardness (as CaCO <sub>3</sub> )	26.8	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
EMB plates	No Colonies Observed
MacConkey Plates	No Colonies Observed
Single strength MPN broth	No Colour change, No Gas production
Double strength MPN broth	No Colour change, No Gas production

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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Drinking Water- Science Building
<b>Sample collection Date</b>	16/02/2022
<b>Sample analysis date</b>	16/02/2022
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.7	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	117	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	17.30	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	23.9	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	No Colonies Observed
<b>MacConkey Plates</b>	No Colonies Observed
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

\*TLTC-Too Less To Count

\* TMTC-Too Much To Count

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(Audit Period: June 2021 to May 2022)**

**Observations & Suggestions:**

- The University is having good Green belt including 500+ neem tree plantations inside the campus.
- The University building has very good ventilation for natural light.
- Numbers of Incinerators should be increased to manage sanitary waste.
- Increase the awareness activities regarding energy saving & environmental sustainability.
- As far as possible, avoid use of personal vehicles, single use plastics, water wastage, energy wastage, burning of bio-mass inside the University campus.
- Sensor lights to be installed in and around the premises of the University campus.



**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**

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CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2021 to May 2022)

### 10) Certificate



## V.V.P. ENGINEERING COLLEGE

ENVIRONMENTAL AUDIT CELL, Vajdi - Virda, Kalawad Road, Rajkot

**Environmental Audit Certificate**  
Atmiya University, Rajkot-360005-Gujarat-India  
For the AY (2021-22)

Environmental Audit for the period **June 2021 to May 2022** has been conducted for the **Atmiya University, Rajkot** to assess the green initiatives planning and efforts implemented in the college campus like Green Campus Management. This Environmental Audit is also aimed to assess eco-friendly initiatives of the Institute towards sustainability.

It is believed that the institution has presented authentic data on various aspects of working of the institute before the audit team. The recommendations are based on the data presented before the team as they existed at the audit time. This certificate is valid for the audit period only. However, it is subject to automatic cancellation in case of any change in prevailing green practice or misleading data. The findings reported in this audit report are entirely based on data furnished by the institute and data collected by the audit team during the audit. Thus, the findings reported in this audit report are strictly limited to the period when the audit was conducted.

The Environmental Quality in the campus is found **adequate and efficacious**.

**Dr. Sushil Korgaokar**  
(Recognised Schedule-I Environmental Auditor, Gujarat Pollution Control Board-GPCB – Gandhinagar, Gujarat)

Environmental Audit Laboratory,  
V.V.P. Engineering College, Virda – Vajdi,  
Kalawad Road, Opp. Motel the Village,  
Rajkot-360005-Gujarat-India



I assure that the data presented is authentic to the best of my knowledge & I agree to comply with the recommendations received this report within a year at maximum after the internal review.

**Dr. Ashish M. Kothari,**  
Dy. Registrar,  
Atmiya University,  
Rajkot-360005-Gujarat-India

*Ashish*  
Deputy Registrar  
Atmiya University  
Rajkot



Environmental Audit & Consultancy Cell,  
V.V.P. Engineering College, Rajkot





**ATMIYA  
UNIVERSITY**

**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion 7**

**I V & B P**

**KI 7.1**

**M 7.1.3**

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University**

**Rajkot**



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**1.7 GREEN/ ENVIRONMENT AUDIT 2022-23**

CLIENT: M/s. Atmiya University, Rajkot  
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(Audit Period: June 2022 to May 2023)

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**Registrar**  
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**Atmiya University**  
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CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2022 to May 2023)

## 1) Executive Summary

Atmiya University established on April 13, 2018, under the Gujarat Private University Act 11, 2018, ATMIYA University emphasizes to train young minds in consonance with the doctrines of higher education and human values. The aim of this University is to spread eternal happiness and to create a happy society in letter and spirit. The motto “सुहृदंसर्वभूतानम्” (Suhardam Sarva Bhootanam) is an expression of willingness to attain harmony with each creation of the Almighty!

This environmental audit report provides a comprehensive overview of Atmiya University, located in the vibrant city of Rajkot, Gujarat. Atmiya University, a prominent educational institution in the region, serves as a dynamic center for higher education, offering a diverse range of undergraduate, postgraduate, and doctoral programs. Established with a vision ‘To nurture creative thinkers and leaders through transformative learning’ and committed to create a transformative learning experience by imbibing domain specific knowledge & wisdom and to focus on research based teaching learning with Industry relevant application knowledge. The university plays a crucial role in shaping the region’s educational landscape.

Situated in an urban setting, Atmiya University benefits from excellent connectivity and accessibility within the Rajkot area. The campus spans approximately 23.5 acre and features modern infrastructure that includes state-of-the-art classrooms, research labs, libraries, recreational facilities, and green spaces that enhance the learning environment.

The university accommodates a diverse and vibrant community from various parts of India and beyond. This thriving student body is supported by a faculty dedicated to promoting sustainable practices on campus, aligning with Atmiya University’s mission to minimize its environmental impact.

A satellite image of the campus highlights its strategic layout and showcases the integration of natural and built environments, offering a visual perspective on the university’s physical footprint within the urban landscape. This audit aims to evaluate Atmiya University’s environmental practices and suggest actionable steps to enhance sustainability, further aligning with global standards in environmental responsibility and conservation.



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(Audit Period: June 2022 to May 2023)**

**2) Acknowledgment**

On behalf of the Environmental Audit & Consultancy Cell at **V.V.P. Engineering College, Rajkot**, we would like to express our sincere gratitude to the management of **Atmiya University, Rajkot** for entrusting us with the important task of conducting their Environmental Audit/Green Audit.

We deeply appreciate the cooperation extended by your team throughout the assessment process. This cooperation was instrumental in the successful completion of the audit.

We would also like to extend our special thanks to **Dr. Ashish Kothari, Deputy Registrar, Atmiya University** for their unwavering support. Their dedication proved to be invaluable in ensuring the project's completion. Finally, we thank all other staff members who actively participated in data collection and field measurements. Their contributions were essential to the smooth execution of the audit.

We are also thankful to:

SN	Name	Designation
1	Er. Ravi S. Tank	Chemical Engineer
2	Dr. Hemantkumar G. Sonkusare	Civil Engineer
3	Dr. Anilkumar S. Patel	Chemist

In closing, we would like to express our gratitude to **Dr. Shiv Tripathi, Vice Chancellor, Atmiya University** for extending the opportunity to evaluate their esteemed campus's environmental performance.

**Registrar**  
Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
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V.V.P. Engineering College, Rajkot

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(Audit Period: June 2022 to May 2023)**

**3) Disclaimer**

This Green Audit report has been prepared by the Environmental Audit Cell at V.V.P. Engineering College, Rajkot for of Atmiya University, Rajkot. It incorporates data submitted by University officials/representatives along with expert analysis by the EA&CC Audit team.

While all reasonable efforts have been made to ensure its accuracy, the report is based on information gathered in good faith. Conclusions are based on best estimates and do not constitute any express or implied warranty or undertaking. The EA&CC at Atmiya University, Rajkot assumes no responsibility for any direct or consequential loss arising from the use of the information, statements, or forecasts in this report.

The findings presented in this report are based entirely on data provided by Atmiya University and gathered by the audit team during their audit & monitoring visit. It assumes normal operating conditions within the institution throughout the audit period. The auditors are unable to comment on environmental audit parameters outside the scope of the on-site surveys. Consequently, the report's findings are strictly limited to the timeframe during which the audit team conducted its assessment.

The Environment Audit Cell at V.V.P. Engineering College, Rajkot, maintains strict confidentiality regarding all information pertaining to Atmiya University. No such information will be disclosed to any third party except public domain knowledge or when required by law or relevant accreditation bodies.

This certificate is valid solely for the current Environmental Audit/Green Audit report. It may be automatically revoked if any significant changes occur in the quantity or quality of waste generation at the aforementioned institute.

Environment Audit Cell,  
V.V.P. Engineering College

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**Atmiya University**  
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**4) Introduction**

Since the 2019-20 academic year, the National Assessment and Accreditation Council (NAAC) requires all Higher Educational Institutions (HEIs) to submit an annual Environmental Audit/Green Audit report. This requirement falls under Criterion 7 of the NAAC accreditation process, which evaluates institutions for their environmental sustainability practices. NAAC, an autonomous body in India, assigns accreditation grades (A, B, or C) based on various criteria, including environmental stewardship.

Furthermore, conducting Environmental Audit/Green Audits aligns with the Corporate Social Responsibility (CSR) initiatives of HEIs. By implementing measures to reduce their carbon footprint, institutions contribute positively to mitigating global warming.

In response to the NAAC mandate, the University management opted for an external Environmental Audit/Green Audit conducted by a qualified professional auditor.

Environmental Audit/Green Audit entails a comprehensive environmental assessment, examining both on-campus and off-campus practices that directly or indirectly impact the environment. In essence, it is a systematic process of identifying, quantifying, recording, reporting, and analysing environmental aspects within the institute setting.

Environmental Audit/Green Audits originated as a tool to evaluate institutional activities that might pose risks to human health and the environment. It provides valuable insights for improvement, guiding institutions towards environmentally responsible practices and infrastructure.

The specific areas covered by this audit include Green Campus initiatives, Waste Management, Water Management, Air Pollution Control, Energy Management, and Carbon Footprint reduction strategies employed by the University.

The following sections delve deeper into the concept, structure, objectives, methodology, analytical tools, and overall goals of this Green Audit.

Educational institutions are increasingly prioritizing environmental concerns. As a result, innovative concepts are emerging to make campuses more sustainable and eco-friendly. Numerous institutions are adopting various approaches to address environmental challenges within their facilities, such as promoting

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energy conservation, waste recycling, water use reduction, and rainwater harvesting.

The activities of educational institutions can have both positive and negative environmental impacts. A Green Audit is a formal evaluation process that assesses the University's environmental footprint. It provides a comprehensive picture of the current environmental conditions on campus.

Green Audits are a valuable tool for Universities to identify areas of high energy, water, or resource consumption. This allows institutions to implement targeted changes and achieve cost savings. Additionally, Green Audits can analyse the nature and volume of waste generated, leading to improved recycling programs or waste minimization plans.

Green auditing and the implementation of mitigation measures offer a win-win scenario for institutions, students, and the environment. It can foster health and environmental awareness, promoting values and beliefs that benefit everyone. Green Audits also provide an opportunity for staff and students to gain a deeper understanding of the impact their institution has on the environment.

Furthermore, Green Audits can translate into financial savings by encouraging a reduction in resource usage. This process also empowers students and teachers to develop a sense of ownership for personal and social environmental responsibility.

The Green Audit process typically involves collecting primary data, conducting a site visit with University representatives, and reviewing relevant policies, activities, documents, and records.

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(Audit Period: June 2022 to May 2023)**

**OBJECTIVE AND SCOPE**

The broad aims/benefits of the Environmental Audit/Green Audit would be

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Sustainable use of natural resource in the campus.
- Financial savings 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
- Enhancement of University profile
- Developing an environmental ethic and value systems in young people

**Outcomes OF ENVIRONMENT AUDIT TO EDUCATIONAL INSTITUTIONS**

There are many advantages of environment audit to an Educational Institute:

1. Protect the environment in and around the campus.
2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Empower the organization to frame a better environmental performance.
4. Portrays good image of institution through its clean and green campus.

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## 5) Environmental Policy



# ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act (I, 2018)  
Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

### Environment and Sustainability Policy for Green Campus

Atmiya University recognizes the critical importance of environmental sustainability and its role in minimizing ecological footprints. Guided by its commitment to the principles of conservation and harmony with nature, the university adopts this Policy to integrate environmental awareness and sustainable practices into its daily academic and administrative operations, education, and community engagement. This policy reflects the university's dedication to fostering a sustainable future.

#### Objective

Atmiya University strives to establish a clean, green, and sustainable campus by:

- Developing, monitoring, and evaluating a policy to guide green campus initiatives.
- Reducing the ecological footprint through sustainable practices.
- Educating students and staff on environmental issues and on building harmony with nature & mother earth to create a healthier, sustainable future.
- Promoting innovative environmental practices to enhance sustainability performance.
- Strengthening an environmentally responsible culture across curricular and extracurricular activities.
- Addressing local and regional environmental challenges with sustainable solutions.
- Ensuring sustainable resource use and minimizing wasteful practices.
- Protecting biodiversity and reducing environmental pollution.

#### Environmental Goals and Targets

The university sets specific goals such as reducing energy consumption, minimizing waste generation, conserving water, managing/recycling/disposal of waste, and promoting biodiversity to enhance its sustainability initiatives.

#### Key Focus Areas

1. **Clean Campus Initiatives:** Regular cleaning drives, waste segregation, and beautification projects.



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## ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act II, 2018)

Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

2. **Green Energy:** Installing renewable energy sources to reduce dependency on non-renewable energy sources.
3. **Landscaping and Biodiversity:** Developing green spaces, planting neem trees, and conserving biodiversity.
4. **Energy Efficiency:** Installing energy-efficient appliances, natural lighting, and ventilation.
5. **Water Conservation:** Using rainwater harvesting systems, low-flow fixtures, and RO wastewater recycling.
6. **Waste Management:** Segregating solid, liquid, e-waste, and bio-waste for recycling and composting.
7. **Transportation and Mobility:** Promoting biking, carpooling, e-vehicles, and public transit.
8. **Green Building Standards:** Incorporating eco-friendly designs in construction and renovation projects.
9. **Curriculum Integration:** Courses on SDG awareness and environmental science across all disciplines.
10. **Community Engagement:** Conducting workshops, seminars, and outreach programs on environmental topics.

### Key Practices

#### 1. Energy Efficiency

- Transition to energy-efficient devices and systems.
- Encourage behaviour changes for energy conservation.
- Promote renewable energy solutions like solar and biogas.

#### 2. Waste Management and Recycling

- Comprehensive waste management with dedicated recycling and composting units.
- Initiatives like **Parivartan (Paper Recycling Unit)** and **Sarjan (Agricultural Waste Recycling Unit)** to create sustainable products.

#### 3. Water Conservation

- Installation of rainwater harvesting systems and reservoirs with a 17 lakh-litre capacity.
- Xeriscaping and responsible water usage to reduce dependency on municipal water.

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## ATMIYA UNIVERSITY

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### 4. Biodiversity and Green Spaces

- Develop gardens, tree plantations, and outdoor educational spaces to promote biodiversity.
- Integrate sustainable farming practices using Panchgavya and Jivamrut fertilizers.

### 5. Transportation and Mobility

- Establish e-vehicle charging stations, bike racks, and pedestrian-friendly paths.

### 6. Education and Awareness

- Organize campaigns like Use Solar-Save Nature, Save Energy-Water and tree plantation drives.
- Include sustainability topics in the curriculum to foster awareness and innovation.

### Implementation and Monitoring

- **Incentives and Recognition:** Reward active participants in sustainability efforts.
- **Budget and Funding:** Allocate resources for projects and seek grants for sustainability initiatives.
- **Compliance and Legal Adherence:** Ensure alignment with relevant environmental laws and regulations.
- **Periodic Review:** Monitor the policy's impact and revise based on feedback and emerging challenges.

### Conclusion

Adopting this Policy highlights Atmiya University's unwavering commitment to environmental stewardship and sustainable development. By fostering a culture of awareness and proactive participation, the university aspires to create a greener and healthier campus, setting a benchmark for future generations. Together, we will build a resilient and sustainable future.



*[Signature]*  
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**6) General Information**

- a. Does any Green Audit conducted earlier? **Yes**
- b. Total Area of the University = 84455 m<sup>2</sup>
- c. What is the total strength (people count) of the Institute?

AY	Students			Teaching Staff			Non-Teaching Staff			Total		
	M	F	Trans	M	F	Trans	M	F	Trans	M	F	Trans
2022-2023	3776	2204	0	168	134	0	190	32	0	4134	2370	0

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

Month (AY- 2022-2023)	No. of Working Days
June	26
July	25
August	18
September	26
October	17
November	21
December	26
January	23
February	23
March	24
April	22
May	26
Total	277



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**e. Which of the following are found near your institute?**

Municipal dump yard	No
Garbage heap	No
Public convenience	Yes
Sewer line	Yes
Stagnant water	No
Industry	No
Bus / Railway station	Yes
Market / Shopping complex	Yes
Play Ground	Yes

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

Type of waste	Response	Detail(s) of Waste Generated	Quantity of Waste Generated (kg)	
Solid	Biodegradable	Yes	Gardening, Cow dung	175
	Non-biodegradable	Yes	Sweeping waste,	10
	e-waste	Yes	Computer, Battery	00
Liquid	Yes	Kitchen Waste	35	
Gas	No	--	--	

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

- Composting: Gardening and cow dung waste used to make compost.
- Non-recyclable and non biodegradable waste disposal is managed by the Rajkot Municipal Corporation.

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**h. Do you use recycled paper in institute? Yes**

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

Poster competition activities	<b>Yes</b>
Campaigns	<b>Yes</b>
Webinars and seminars	<b>Yes</b>

**j. Is there a garden in your institute?**

<b>Garden</b>	<b>Yes</b>	<b>Area = 6732.26m<sup>2</sup></b>
---------------	------------	------------------------------------

**k. Total number of Plants in Campus?**

SN	Namepd Species	Numbers
1	Neem Tree	211
2	Lemon cypress	1
3	FicusMicrocapra	100
4	Hedge Plant	01
5	Tajplantshub dracaena	01
6	Crown of Throns	01
7	Spanish Moss (TilandsiaUsneoides)	10
8	Ruellia simplex	51
9	FagusSylvatica plant	01
10	Euphorbia Tithymaloides	11
11	Weeping Fig	685
12	LysilomaWatsonil	01
13	Royal Palm	38
14	Bamboo	230

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15	Moringa	01
16	Acalyphawilkesiana	300
17	Dracaena Angustifolia	11
18	<i>Polysciasscutellaria</i>	04
19	<u>CordylinEFRUTICOSA</u>	40
20	Dracaena Reflexa	500
21	Garden Croton	01
22	polysciasguilfoylei	10
23	Oyster Plant (tradescantiazebrina)	300
24	Lonicerapileata	50
25	Saribusrotundifolius	10
26	Ixora	10
27	Hyophorbelagenicaulis	20
28	Purple heart	150
29	Yellow cosmos (sulphur cosmos)	100
30	Canna discolor	15
31	Durantaerecta	1100
32	Pritchardiapacifica	11
33	Capparissandwichiana	50
34	Nerium Oleander	10
35	Casuarinaequisetifolia	20
36	Caryotaurens	2
37	Areca palm	20



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(Audit Period: June 2022 to May 2023)**

38	Ravenala	10
39	Iresineherbstii	300
40	Sago Plam	22
41	Sphgneticolatrilobata	1500
42	Thuja	24
43	Dracaena trifasciata	62
44	Ponytail Palm	2
45	Asparagus densiflorus	50
46	Alocasiazebrina	02
47	Bismarck palm	8
49	Lotus	100
50	Catharanthus	50
51	Padavati Jasmin	50
52	Caryotamitis	04
53	Monoonlongifolium	3
54	Breyniadisticha	50
55	PlumeriaObtusa	10
56	Alovera	100
57	Century Plant	30
58	Sweet osmanthus	1
59	Crinum asiaticum	27
60	Diantherapectoralis	200
61	Hibiscus	10

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62	Ficusaspera	5
63	Mulberry tree	10
64	Barbary fig	5
65	Dracaena angolensis	2
66	Terminaliachebula plant	2
67	Nettlespurges	2
68	Yellow elder	2
69	MadhucaLongifolia	2
70	Eucalyptus globulus.	1
71	Melicoccusbijugatus	1
72	Casuarinaequisetifolia	1
73	Indian jujube	5
74	Tulsi	50
75	Coconut palm tree	8
76	Calotropisgigantea	1
77	Persian Silk	5
78	Mango tree	1
79	Curry Tree	4
80	Punicagranatum	5
81	Pandanusveitchii	50
82	Streblusasper	5
<b>Total</b>		<b>6859</b>



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**I. List uses of water in your institute**

<b>Basic use of water in campus</b>	<b>KL/Day</b>
Drinking	14
Gardening	16
Kitchen and Toilets	19
Others	14
Hostel	28
<b>Total</b>	<b>91 KL/Day</b>

**m. Electricity Consumed**

<b>Month (Academic Year 2022-2023)</b>	<b>Electricity Consumed (kWh)</b>
June	1,73,425
July	1,75,107
August	1,70,233
September	1,75,633
October	1,89,039
November	1,20,528
December	1,21,489
January	1,06,395
February	1,04,507
March	1,41,223
April	1,71,150
May	1,88,347
<b>Total</b>	<b>18,37,076</b>

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

Building	SN	Tank Description	Size (liter)	No. of Tank	Capacity (liter)
AU Building	1	Raw Water- A Wing	2500	4	10000
	2	Raw Water- B Wing	2500	4	10000
	3	Master RO - Raw Water	5000	3	15000
	4	RO Water Tank	2500	7	17500
	5	Pharmacy and Mechanical Lab	2000	1	2000
	6	Faculty Block (A& B Wing)	2500	2	5000
	7	Library Terrace	2000	1	2000
	8	Raw Water Near AU Building- Underground	275000	1	275000
MPAB	9	RO Water - at Terrace	2000	2	4000
	10	Raw Water- at Terrace	60000	1	60000
	11	Raw Water- at Terrace	40000	7	280000
	12	Near Building- Undrground	333746	2	667492
	13	Near Building- Undrground	336826	2	673652
	14	Below Temple- Underground	189924	1	189924
	15	Below Temple- Underground	43718	1	43718
	16	In Front of Store- Underground	123604	1	123604

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Workshop	17	RO Water- at Terrace	2000	1	2000
	18	Raw Water- at Terrace	2000	2	4000
	19	Raw Warer- at Terrace	5000	1	5000
	20	Behind Workshop- Round Tank- Underground	45650	1	45650
Science Building	21	RO Water- at Terrace	2500	1	2500
	22	Raw Water Tank- at Terrace	23300	2	46600
	23	Raw Water Tank- Ladies Toilet	30000	3	90000
	24	CIF Lab	1500	1	1500
	25	Raw Water- OTIS- Underground	32620	1	32620
	26	Wastewater- Outside the Building	2000	1	2000
Yogidham Gate	27	Raw Water Tank- Underground	48750	4	195000
Niramay	28	RO Water Tanki at Terrace	2500	1	2500
	29	Raw Water Tank- at Terrace	11650	1	11650
	30	Raw Water Tank- Near Office	5000	2	10000
Sarva naman	31	Raw Water Tank- at Terrace	2000	1	2000
	32	Raw Water Tank- at Terrace	8550	1	8550
	33	Raw Water- inside building	600	1	600
<b>Total Water Storage Capacity</b>					<b>28,41,060</b>



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**7) Green Initiatives By the Institute**

**Green Architecture**

The incorporation of green architecture principles in academic institutions not only reduces environmental impact but also fosters a healthier and more inspiring learning environment for students and faculty alike. By integrating features such as passive solar design, natural ventilation, and green roofs, these institutions showcase a commitment to sustainability while promoting innovation and awareness of eco-friendly design practices within the academic community.



**Natural Light and Ventilation in Academic Building**

**Impact:**

- Low artificial lighting requirements
- Energy consumption optimization
- Low green house gas emission
- Low level of strain to Eyes



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**Campus Biodiversity**

A thriving campus biodiversity in academic institutions is not merely a reflection of ecological health but also serves as a testament to the institution's commitment to sustainability and environmental stewardship. It provides a living laboratory for students to engage with nature firsthand, fostering a deeper understanding of ecological systems and instilling a sense of responsibility towards conservation. Beyond its educational value, a biodiverse campus offers numerous benefits such as improved air and water quality, enhanced aesthetics, and increased resilience to environmental stressors. It becomes a sanctuary for wildlife, contributing to the preservation of local ecosystems and biodiversity at large. Atmiya University campus is a rich in the biodiversity with the full of greenery and in house terrace garden.



**Glimpse of Flora at University Campus**



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**Terrace Farming Capacity (Niramaya)**

**Installation Detail**

- Total Area: 800 Square meter
- Three different farming: Hydroponics , Vertical and Terrace

**Hydroponic farming**

- method of growing plants without soil, using a nutrient-rich water solution to deliver essential nutrients directly to the plants' roots
- Tomato, Basil and mint grown by using this method.

**Vertical farming**

- vertical farming utilizes vertical space
- growing crops in vertically stacked layers
- Vertical farming reduces the need for extensive land use.

**Terrace garden**

- The following are grown in the terrace garden
- Grapes, Calabash and asparagus bean are grown using this method.

**Impact of terrace farming**

- Controlled environments can reduce the need for pesticides, as pests and diseases are less likely to affect crops grown indoors
- Terrace gardens act as natural insulators, reducing the need for artificial heating and cooling within the building. This can lead to energy savings and lower electricity bills.
- Students get the practical knowledge of terrace farming in the urban environment that can be replicated and implemented at their home and society.

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**ATMIYA  
UNIVERSITY**

**NAAC – Cycle – 1  
AISHE: U-0967**

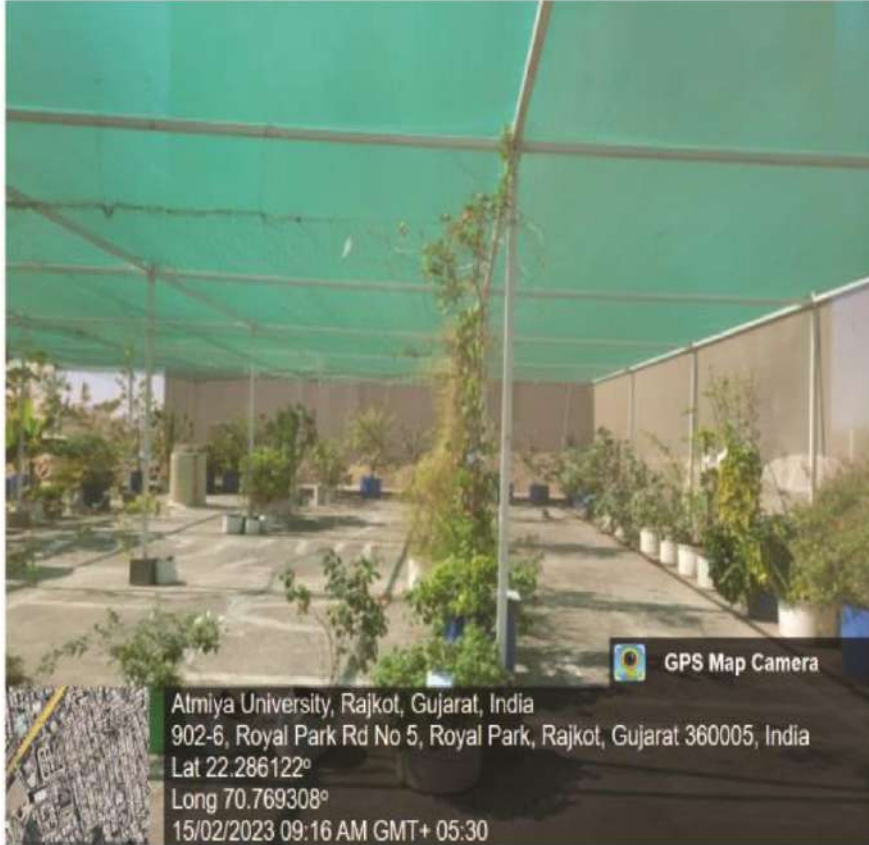
**Criterion 7**

**I V & B P**

**KI 7.1**

**M 7.1.3**

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**Terrace Garden (Niramay) at University Campus**



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**Gaushala at Campus**

- 24 Indian Breed Cow
- 01 Bull
- State of the art facilities
- Value addition cow urine for herbal and fertilizer utilization
- Decorative products are being made from the cow dung.
- Jivamrut fertilizer being used in the campus is a product of gaushala.
- It contributes to maintain the organic carbon content in the campus soil as it provides the raw material for the compost.



**Satyakam Gaushala**

It provides students with firsthand experience in animal care, veterinary science, and sustainable agriculture. They can learn about the importance of cows in Indian culture, their significance in agriculture, and sustainable farming practices.

Gaushalas contributes to the eco-friendly practices like composting cow dung for fertilizer, using biogas for cooking which can serve as models for sustainable living and agriculture.

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In Indian cultures, cows are revered as sacred animals. Having a gaushala on campus can help preserve and promote this cultural heritage among students and the community.

Universities can conduct research on various aspects of cow rearing, including breeding, nutrition, and healthcare. This research can contribute to advancements in animal science and agriculture.

Cows play a crucial role in maintaining soil fertility through their dung, which is rich in nutrients. By managing cow waste effectively, gaushalas can contribute to soil health and environmental conservation.

### **Solid Waste Management**

#### **Natural Fertilizer from Organic Waste**

##### **Jivamrut (Natural Fertilizer)**

Installation Detail:

- Year: 2008
- Place: at boys parking
- Process: Collect neem leaves form campus and added with cow dung, cow urine and Earthworms

##### **Amrut Soil**

- Ingredients for AmrutMitti range from cow dung, cow urine, biomass like dry and decayed leaves, household kitchen waste like vegetable peels.
- AmrutSoil is full of all nutrients needed by plants, is very rich in variety of microbes, has the right pH, has high carbon content, has excellent water holding capacity.
- Mixing Cow dung, cow urine and jaggery
- Immersing dry biomass in Amrutjal kept in drums
- Process take at least 1 month
- Use as garden fertilizer.

##### **Impact:**

- Applied in garden as fertilizer
- Improve soil micro-biota of campus soil
- Less usages of chemical fertilizer

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Figure 6: Amrut Soil and Jivamrut Plant

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**Municipal Solid Waste Segregation Bin**

University campus having more the 100 solid waste collection dustbin design for the proper waste segregation. Waste paper is recycled at the in-house paper recycling facility and converted into the filter paper, envelope and other artistic and decorative products.

Having separate bins encourages people to sort their waste, making it easier to recycle materials such as paper, plastic, glass, and metal. This promotes a culture of recycling and reduces the amount of waste sent to landfills or incinerators.

Recycling materials reduces the need for raw materials, energy, and water required to manufacture new products. This conserves natural resources and reduces the environmental impact associated with extraction, processing, and transportation.

Implementing separate bins provides an opportunity for educational initiatives on waste management, recycling, and environmental stewardship. Students, faculty, and staff can learn about the importance of recycling and how their actions contribute to sustainability.



**Separate Dustbin for Recyclable and Non-Recyclable Waste**

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### Paper Recycling Unit

In embracing the principles of the circular economy, Atmiya university is pioneer in sustainable practices such as paper recycling, ensuring that resources are reused and regenerated rather than disposed of after single use. By implementing robust paper recycling programs, these institutes not only reduce waste and environmental impact but also cultivate a culture of resource efficiency and responsible consumption among students, faculty, and staff.

Recycling paper can lead to cost savings for the university by reducing waste disposal fees and the need to purchase new paper products. This can free up financial resources that can be allocated to other campus initiatives or projects.



Parivartan- Paper Recycling Plant

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**Plastic Water Bottle Recycling Plant**

University have installed water bottle recycling plant at entrance for all stakeholders having capacity of 20 kg/day

A bottle crusher helps reduce the volume of plastic bottles, thereby decreasing the amount of plastic waste generated on campus. This contributes to waste reduction efforts and helps minimize the environmental impact of plastic pollution.

By providing a convenient way to crush plastic bottles, the crusher encourages recycling behavior among students, faculty, and staff. It reinforces the importance of recycling and helps divert plastic waste from landfills or incinerators.

Plastic pollution poses significant threats to ecosystems, wildlife, and human health. By reducing plastic waste through recycling, a bottle crusher helps protect the environment and minimize the adverse effects of plastic pollution on marine life, terrestrial habitats, and waterways.



**Plastic Bottle Crusher Machine**

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**Energy Conservation Measures**

**Renewable Power Generation**

The adoption of solar rooftop systems in Atmiya university significantly reduces carbon emissions, contributing to a cleaner and more sustainable environment while serving as a tangible demonstration of the institute's commitment to renewable energy and climate action. Additionally, the integration of solar rooftops enhances the educational experience by providing real-world examples of sustainable technology, inspiring students to explore and innovate in the field of renewable energy. Atmiya University having fully operational solar rooftop electricity generation capacity as per the vision of the government.



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**Rooftop Solar Plant  
Renewable Power Generation per Month**

Month & Year	RE Cultivation in KWh
Jun-22	33,642
Jul-22	20,784
Aug-22	23,264
Sep-22	29,568
Oct-22	33,664
Nov-22	28,864
Dec-22	26,432
Jan-23	30,064
Feb-23	32,576
Mar-23	41,648
Apr-23	57,504
May-23	66,992
<b>Total</b>	<b>4,25,002 KWh</b>



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**Energy Efficient Electrical Appliances**

Energy-efficient infrastructure in institutions not only lowers operational costs but also serves as a beacon of sustainable practices, showcasing the institution's dedication to environmental stewardship and responsible resource management. By implementing measures such as LED lighting, efficient HVAC systems, and smart building technologies, these institutions demonstrate leadership in sustainability while providing a conducive learning environment for students and faculty.



**LED Lighting and 5 Star Rated Appliances**

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**Water Management**

Water conservation is a key activity as water availability affects on the development of the campus as well as on all area of development such as farming, industries, etc. Keeping this view water conservation activity is carried out.

**Sources of Water**

- Rainwater Harvesting
- Bore water
- A Main source of water is RMC connection and Ground water is extracted to fulfill the requirement. The University stores the water in overhead tank.

**Sewage Disposal Facility**

Atmiya University is situated in the municipal area of Rajkot. RMC (Rajkot Municipal Corporation) provides municipal facilities to the university. Sewage is being disposed in the sewerage network of Rajkot city.

**RO Plant**

RO plants provide clean and safe drinking water by removing contaminants, such as bacteria, viruses, and dissolved solids, from the water. This ensures that students, faculty, and staff have access to safe drinking water, promoting better health and well-being. With access to clean drinking water on campus, there is less reliance on bottled water. This can lead to a significant reduction in plastic waste generated by the university, contributing to environmental sustainability efforts.



**Reverse Osmosis Plant for Drinking Water**



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**Rainwater Harvesting**

**Capacity : 12 Lac Liters**

**Environmental Benefits:** By reducing the demand for potable water and minimizing stormwater runoff, rainwater harvesting contributes to environmental conservation efforts. It helps preserve freshwater resources, protects aquatic ecosystems, and mitigates the impacts of urbanization on natural hydrological cycles.

**Water Conservation:** Rainwater harvesting reduces reliance on traditional water sources by collecting and storing rainwater for various uses, such as irrigation, flushing toilets, and landscape maintenance. This helps conserve freshwater resources and reduces the strain on municipal water supplies, especially during periods of drought or water scarcity.



**Rainwater Harvesting Tank**

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**Air Pollution Control Measures**

**Acidic Fume Suction Panel**

Laboratory of chemistry department is equipped with the vapour suction panel mounted on the platform. It collects the hazardous gas and channelizes it to the wet scrubber for the neutralizing before discharge into the atmosphere.



**Acidic Fume Suction Panel**

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**Fume Hood at Chemistry laboratory**

Fume hoods are designed to contain and exhaust potentially hazardous fumes, vapors, and gases generated during chemical experiments. They create a barrier between the experiment and the laboratory environment, preventing exposure to toxic or harmful substances. Fume hoods protect laboratory personnel from inhaling harmful chemicals or being exposed to hazardous substances.



**Fumehood at Chemistry Laboratory**



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**Wet Scrubber**

- 1. Reduction of Air Pollution:** Scrubbers help remove harmful gases, such as hydrogen chloride (HCl) and hydrogen fluoride (HF), from the laboratory air. By capturing these pollutants before they are released into the atmosphere, scrubbers contribute to reducing air pollution and improving indoor and outdoor air quality.
- 2. Prevention of Acid Rain Formation:** Hydrogen chloride and hydrogen fluoride emissions can contribute to the formation of acid rain when released into the atmosphere. Alkali gas scrubbers mitigate this environmental impact by removing these acidic gases from laboratory emissions before they can react with moisture in the air and contribute to acid rain formation.
- 3. Protection of Ecosystems:** Acid rain resulting from air pollution can have detrimental effects on ecosystems, including damage to vegetation, soil, aquatic habitats, and wildlife. By reducing the emission of acidic gases, alkali gas scrubbers help protect sensitive ecosystems and promote biodiversity conservation.
- 4. Minimization of Health Risks:** Hydrogen chloride and hydrogen fluoride are corrosive and toxic gases that can pose health risks to laboratory personnel and surrounding communities if released into the environment. Alkali gas scrubbers help minimize these risks by capturing and neutralizing these hazardous pollutants before they can be emitted.
- 5. Reduction of Odors:** In addition to removing acidic gases, alkali gas scrubbers can also help eliminate unpleasant odors associated with certain chemical processes in the laboratory. This improvement in air quality enhances the comfort and well-being of laboratory personnel and visitors.

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6. **Conservation of Resources:** Alkali gas scrubbers typically utilize alkaline solutions, such as sodium hydroxide (NaOH), to neutralize acidic gases. While the operation of scrubbers requires resources such as water and chemicals, their use contributes to the conservation of environmental resources by preventing the release of pollutants into the air and minimizing the need for remediation measures.



**Wet Gas Scrubber**

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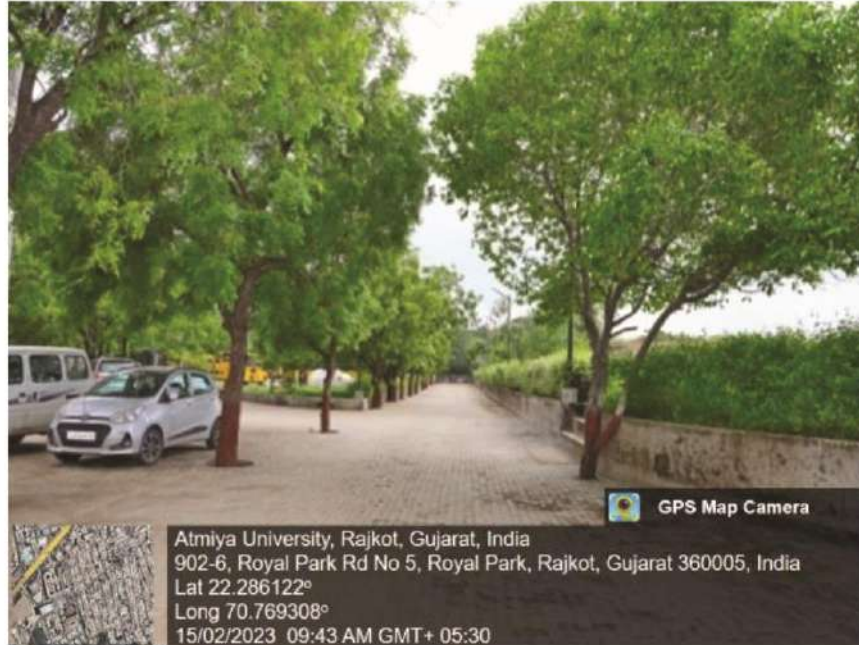
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**Tree Plantation**



**Greenery at Atmiya University Campus**

University campus is full of indigenous tree and medicinal plants produce positive impact on environment.

- **Air Quality Improvement:** Trees and plants act as natural air filters, absorbing carbon dioxide (CO<sub>2</sub>) and other pollutants from the air while releasing oxygen through the process of photosynthesis. This helps improve air quality on campus, reducing the concentration of harmful gases and particulate matter and promoting a healthier environment for students, faculty, and staff.
- **Carbon Sequestration:** Trees play a crucial role in mitigating climate change by sequestering carbon from the atmosphere and storing it in their biomass. By planting trees on campus, universities can contribute to carbon sequestration efforts and help offset their carbon footprint, supporting broader sustainability goals and initiatives.

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- **Temperature Regulation:** Trees provide natural shade and evapotranspiration, helping to cool the surrounding environment and reduce the urban heat island effect. By creating shaded areas and lowering ambient temperatures, trees contribute to energy conservation efforts by reducing the need for air conditioning and mitigating heat-related stress during hot weather.
- **Storm water Management:** The roots of trees and plants help absorb rainwater and reduce runoff, preventing soil erosion and minimizing the risk of flooding and water pollution. By incorporating green infrastructure such as rain gardens and bio swales, university campuses can effectively manage storm water runoff, improve water quality, and enhance overall watershed health.
- **Biodiversity Conservation:** Trees and plants provide habitat and food sources for various species of birds, insects, and other wildlife, contributing to biodiversity conservation on campus. By creating green corridors and natural habitats, universities support local ecosystems and promote ecological resilience in urban environments.
- **Noise Reduction:** Trees and vegetation help absorb and deflect sound waves, acting as natural buffers against noise pollution from nearby roads, buildings, and other sources. By planting trees strategically around campus buildings and outdoor spaces, universities can create quieter and more tranquil environments conducive to learning, research, and relaxation.

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**8) Audit Methodology**

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The criteria, methods and recommendations used in the audit were based on the identified risks. The methodology includes: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the document, interviewing responsible persons and data analysis, measurements and recommendations. The methodology adopted for this audit was a three-step process comprising of:

**1. Data Collection** - In preliminary data collection phase, exhaustive data collection was performed using different tools such as observation, survey communicating with responsible persons and measurements.

Following steps were taken for data collection:

- Site Visit
- Data about the general information was collected by observation and interview.
- The power consumption of appliances was recorded by taking an average value in some cases.

**2. Data Analysis** - Detailed analysis of data collected include: calculation of energy consumption, analysis of latest electricity bill of the campus, Water consumption, Waste Generation and Greenery Management.

**3. Recommendation** - On the basis of results of data analysis and observations, some steps for reducing power and water consumption were recommended. Proper treatments for waste were also suggested. Use of fossil fuels has to be reduced for the sake of community health.

The above target areas particular to the University was evaluated through questionnaire circulated among the students for data collection.

The following data collected for the following areas during the assessment.

1. Environment & Waste Management
2. Energy Management
3. Water Management

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**9) Monitoring, Observations & Recommendations**

**Ambient Air Quality Monitoring**

**Date: 15/02/2023**

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
AU Building Main Entrance	49	31.4	16.1	26.3
B/H Ashwad canteen	43.3	29.2	12.3	19.7
Nr. Bus parking	51.5	36.2	14.6	27.1
Nr. Haridarshanam Temple	57.7	31.3	15.7	26.4

**Noise Monitoring**

**Date: 15/02/2023**

Location	Observed Value (db (A))	Permissible Day Time Limit (db (A))
AU Building Main Entrance	47	50
B/H Ashwad canteen	46	
Nr. Bus parking	48	
Nr. Haridarshanam Temple	45	

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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water from VIP parking Area
<b>Sample collection Date</b>	15/02/2023
<b>Sample analysis date</b>	15/02/2023
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.8	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	234	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	9.32	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	25.2	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	TLTC (< 7 colonies )
<b>MacConkey Plates</b>	TLTC (< 3 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production



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(Audit Period: June 2022 to May 2023)

### Water Analysis Report

#### TEST REPORT

Sample Description	Borewell Water from Yogidham Gate 3
Sample collection Date	15/02/2023
Sample analysis date	15/02/2023
Quantity of Sample	2.5 liters

#### Test Result

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	Taste	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	Odour	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	pH	7.9	-	6.5 to 8.5	IS 3025 ( Part 11)
4	Total Dissolved Solids (TDS)	222	mg/l	500 max	IS 3025 ( Part 16)
5	Chloride	11.68	mg/l	250 max	IS 3025 (part 32)
6	Turbidity	<1	NTU	1.0 Max	IS 3025 (part 10)
7	Total Hardness (as CaCO <sub>3</sub> )	18.2	Mg/l	200 max	IS 3025 (part 21)

#### Microbial Analysis

Test	Observation
EMB plates	TLTC (< 5 colonies )
MacConkey Plates	No Colonies Observed
Single strength MPN broth	No Colour change, No Gas production
Double strength MPN broth	No Colour change, No Gas production

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**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2022 to May 2023)**

**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water Near Boy's Hostel
<b>Sample collection Date</b>	15/02/2023
<b>Sample analysis date</b>	15/02/2023
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

<b>Sr. No.</b>	<b>Test Parameter</b>	<b>Results</b>	<b>Units</b>	<b>Desirable limit As per IS 10500:2012</b>	<b>Test method</b>
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.78	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	322	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	22.5	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	88.2	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

<b>Test</b>	<b>Observation</b>
<b>EMB plates</b>	TMTC ( > 100 colonies )
<b>MacConkey Plates</b>	TMTC ( > 100 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production



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**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2022 to May 2023)**

**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water near Temple
<b>Sample collection Date</b>	15/02/2023
<b>Sample analysis date</b>	15/02/2023
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	Taste	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	Odour	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	pH	7.68	-	6.5 to 8.5	IS 3025 ( Part 11)
4	Total Dissolved Solids (TDS)	318.8	mg/l	500 max	IS 3025 ( Part 16)
5	Chloride	8.02	mg/l	250 max	IS 3025 (part 32)
6	Turbidity	<1	NTU	1.0 Max	IS 3025 (part 10)
7	Total Hardness (as CaCO <sub>3</sub> )	80.2	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
EMB plates	TLTC (< 5 colonies )
MacConkey Plates	TLTC (< 4 colonies )
Single strength MPN broth	No Colour change, No Gas production
Double strength MPN broth	No Colour change, No Gas production

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**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2022 to May 2023)**

**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Drinking Water- AU Main Building
<b>Sample collection Date</b>	15/02/2023
<b>Sample analysis date</b>	15/02/2023
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

<b>Sr. No.</b>	<b>Test Parameter</b>	<b>Results</b>	<b>Units</b>	<b>Desirable limit As per IS 10500:2012</b>	<b>Test method</b>
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.6	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	118.8	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	9.78	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	38.9	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

<b>Test</b>	<b>Observation</b>
<b>EMB plates</b>	No Colonies Observed
<b>MacConkey Plates</b>	No Colonies Observed
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production



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**CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2022 to May 2023)**

**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Drinking Water- Science Building
<b>Sample collection Date</b>	15/02/2023
<b>Sample analysis date</b>	15/02/2023
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.80	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	130.1	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	7.7	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	8.1	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	No Colonies Observed
<b>MacConkey Plates</b>	No Colonies Observed
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

\*TLTC-Too Less To Count

\* TMTC-Too Much To Count

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Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2022 to May 2023)**

**Observations & Suggestions:**

- The University has modern infrastructure, including smart classrooms, a computer lab, and a library, which may indirectly impact the environment through energy consumption and waste generation.
- The presence of a functional borewell suggests potential for implementing rainwater harvesting systems to further conserve water resources.
- The University's adoption of rooftop solar power reflects a proactive approach towards utilizing renewable energy sources.
- University has actively participated in the Government/University programmes like Van Mahotsava, Environment day celebration, Gurupurnima day celebration etc..
- The well-designed University building maximizes natural light, promoting energy efficiency and a positive learning environment.
- Expand the display of informative posters and slogans promoting the benefits of a green and clean campus.
- Conduct drive to promote energy conservation, potentially including a designated "power saving day" each quarter.

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Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
**Rajkot**

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CLIENT: M/s. Atmiya University, Rajkot  
Yogidham Gurukul, Kalawad Road, Rajkot - 360 005  
(Audit Period: June 2022 to May 2023)

### 10) Certificate



## V.V.P. ENGINEERING COLLEGE


ENVIRONMENTAL AUDIT CELL, Vajdi - Virda, Kalawad Road, Rajkot

### Environmental Audit Certificate Atmiya University, Rajkot-360005-Gujarat-India For the AY (2022-23)


Environmental Audit for the period **June 2022 to May 2023** has been conducted for the **Atmiya University, Rajkot** to assess the green initiatives planning and efforts implemented in the college campus like Green Campus Management. This Environmental Audit is also aimed to assess eco-friendly initiatives of the Institute towards sustainability.

It is believed that the institution has presented authentic data on various aspects of working of the institute before the audit team. The recommendations are based on the data presented before the team as they existed at the audit time. This certificate is valid for the audit period only. However, it is subject to automatic cancellation in case of any change in prevailing green practice or misleading data. The findings reported in this audit report are entirely based on data furnished by the institute and data collected by the audit team during the audit. Thus, the findings reported in this audit report are strictly limited to the period when the audit was conducted.

The Environmental Quality in the campus is found **adequate and efficacious**.

<p><b>Dr. Sushil Korgaokar</b> (Recognised Schedule-I Environmental Auditor, Gujarat Pollution Control Board-GPCB – Gandhinagar, Gujarat)</p> <p>Environmental Audit Laboratory, V.V.P. Engineering College, Vajdi – Vajdi, Kalawad Road, Opp. Motel the Village, Rajkot-360005-Gujarat-India</p>	
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I assure that the data presented is authentic to the best of my knowledge & I agree to comply with the recommendations received this report within a year at maximum after the internal review.

<p><b>Dr. Ashish M. Kothari,</b> Dy. Registrar, Atmiya University, Rajkot-360005-Gujarat-India</p>	
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Environmental Audit & Consultancy Cell,  
V.V.P. Engineering College, Rajkot





**V.V.P. ENGINEERING COLLEGE**

**ENVIRONMENTAL AUDIT CELL, Vajdi - Virda, Kalawad Road, Rajkot**

**Environmental Audit Certificate**  
**Atmiya University, Rajkot-360005-Gujarat-India**  
For the AY (2022-23)

Environmental Audit for the period **June 2022 to May 2023** has been conducted for the **Atmiya University, Rajkot** to assess the green initiatives planning and efforts implemented in the college campus like Green Campus Management. This Environmental Audit is also aimed to assess eco-friendly initiatives of the Institute towards sustainability.

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I assure that the data presented is authentic to the best of my knowledge & I agree to comply with the recommendations received this report within a year at maximum after the internal review.

<p><b>Dr. Ashish M. Kothari,</b> Dy. Registrar, Atmiya University, Rajkot-360005-Gujarat-India</p>	
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**1.8 GREEN/ ENVIRONMENT AUDIT 2023-24**

**Environmental Audit Report - Atmiya University, Rajkot  
(June 2023 to May 2024)**

**1) EXECUTIVE SUMMARY**

Atmiya University established on April 13, 2018, under the Gujarat Private University Act 11, 2018, ATMIYA University emphasizes to train young minds in consonance with the doctrines of higher education and human values. The aim of this University is to spread eternal happiness and to create a happy society in letter and spirit. The motto "सुहृदंसर्वभूतानम्" (Suhardam Sarva Bhootanam) is an expression of willingness to attain harmony with each creation of the Almighty!

This environmental audit report provides a comprehensive overview of Atmiya University, located in the vibrant city of Rajkot, Gujarat. Atmiya University, a prominent educational institution in the region, serves as a dynamic center for higher education, offering a diverse range of undergraduate, postgraduate, and doctoral programs. Established with a vision 'To nurture creative thinkers and leaders through transformative learning' and committed to create a transformative learning experience by imbibing domain specific knowledge & wisdom and to focus on research based teaching learning with Industry relevant application knowledge. The university plays a crucial role in shaping the region's educational landscape.

Situated in an urban setting, Atmiya University benefits from excellent connectivity and accessibility within the Rajkot area. The campus spans approximately 23.5 acre and features modern infrastructure that includes state-of-the-art classrooms, research labs, libraries, recreational facilities, and green spaces that enhance the learning environment.

The university accommodates a diverse and vibrant community from various parts of India and beyond. This thriving student body is supported by a faculty dedicated to promoting sustainable practices on campus, aligning with Atmiya University's mission to minimize its environmental impact.

A satellite image of the campus highlights its strategic layout and showcases the integration of natural and built environments, offering a visual perspective on the university's physical footprint within the urban landscape. This audit aims to evaluate Atmiya University's environmental practices and suggest actionable steps to enhance sustainability, further aligning with global standards in environmental responsibility and conservation.



**Environmental Audit & Consultancy Cell.  
Shree M. & N. Virani Science College, Rajkot**





**Environmental Audit Report - Atmiya University, Rajkot  
(June 2023 to May 2024)**

**2) ACKNOWLEDGMENT**

On behalf of the Environmental Audit & Consultancy Cell at **Shree M. & N. Virani Science College**, we would like to express our sincere gratitude to the management of **Atmiya University, Rajkot** for entrusting us with the important task of conducting their Environmental Audit/Green Audit.

We deeply appreciate the cooperation extended by your team throughout the assessment process. This cooperation was instrumental in the successful completion of the audit.

We would also like to extend our special thanks to **Dr. Ashish Kothari, Deputy Registrar, Atmiya University** for their unwavering support. Their dedication proved to be invaluable in ensuring the project's completion. Finally, we thank all other staff members who actively participated in data collection and field measurements. Their contributions were essential to the smooth execution of the audit.

We are also thankful to:

SN	Name	Designation
1	Er. Ravi S. Tank	Chemical Engineer
2	Er. Jagniyant Lunagariya	Civil Engineer
3	Dr. Mahesh Savant	Chemist
4	Dr. Abhijeet Joshi	Microbiologist
5	Er. Hemil Chavda	Chemical Engineer

In closing, we would like to express our gratitude to **Dr. Shiv Tripathi, Vice Chancellor, Atmiya University** for extending the opportunity to evaluate their esteemed campus's environmental performance.

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**Environmental Audit Report - Atmiya University, Rajkot  
(June 2023 to May 2024)**

**3) DISCLAIMER**

This Green Audit report has been prepared by the Environmental Audit Cell at **Shree M. & N. Virani Science College for of Atmiya University, Rajkot**. It incorporates data submitted by University officials/representatives along with expert analysis by the EA&CC Audit team.

While all reasonable efforts have been made to ensure its accuracy, the report is based on information gathered in good faith. Conclusions are based on best estimates and do not constitute any express or implied warranty or undertaking. The EA&CC at Atmiya University, Rajkot assumes no responsibility for any direct or consequential loss arising from the use of the information, statements, or forecasts in this report.

The findings presented in this report are based entirely on data provided by Atmiya University and gathered by the audit team during their audit & monitoring visit. It assumes normal operating conditions within the institution throughout the audit period. The auditors are unable to comment on environmental audit parameters outside the scope of the on-site surveys. Consequently, the report's findings are strictly limited to the timeframe during which the audit team conducted its assessment.

The Environment Audit Cell at **Shree M. & N. Virani Science College**, maintains strict confidentiality regarding all information pertaining to Atmiya University. No such information will be disclosed to any third party except public domain knowledge or when required by law or relevant accreditation bodies.

This certificate is valid solely for the current Environmental Audit/Green Audit report. It may be automatically revoked if any significant changes occur in the quantity or quality of waste generation at the aforementioned institute.

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**Environmental Audit Report - Atmiya University, Rajkot  
(June 2023 to May 2024)**

**4) INTRODUCTION**

Since the 2019-20 academic year, the National Assessment and Accreditation Council (NAAC) requires all Higher Educational Institutions (HEIs) to submit an annual Environmental Audit/Green Audit report. This requirement falls under Criterion 7 of the NAAC accreditation process, which evaluates institutions for their environmental sustainability practices. NAAC, an autonomous body in India, assigns accreditation grades (A, B, or C) based on various criteria, including environmental stewardship.

Furthermore, conducting Environmental Audit/Green Audits aligns with the Corporate Social Responsibility (CSR) initiatives of HEIs. By implementing measures to reduce their carbon footprint, institutions contribute positively to mitigating global warming.

In response to the NAAC mandate, the University management opted for an external Environmental Audit/Green Audit conducted by a qualified professional auditor.

Environmental Audit/Green Audit entails a comprehensive environmental assessment, examining both on-campus and off-campus practices that directly or indirectly impact the environment. In essence, it is a systematic process of identifying, quantifying, recording, reporting, and analysing environmental aspects within the institute setting.

Environmental Audit/Green Audits originated as a tool to evaluate institutional activities that might pose risks to human health and the environment. It provides valuable insights for improvement, guiding institutions towards environmentally responsible practices and infrastructure.

The specific areas covered by this audit include Green Campus initiatives, Waste Management, Water Management, Air Pollution Control, Energy Management, and Carbon Footprint reduction strategies employed by the University.

The following sections delve deeper into the concept, structure, objectives, methodology, analytical tools, and overall goals of this Green Audit.

Educational institutions are increasingly prioritizing environmental concerns. As a result, innovative concepts are emerging to make campuses more sustainable and eco-friendly. Numerous institutions are adopting various approaches to address environmental challenges within their facilities, such

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as promoting energy conservation, waste recycling, water use reduction, and rainwater harvesting.

The activities of educational institutions can have both positive and negative environmental impacts. A Green Audit is a formal evaluation process that assesses the University's environmental footprint. It provides a comprehensive picture of the current environmental conditions on campus.

Green Audits are a valuable tool for Universities to identify areas of high energy, water, or resource consumption. This allows institutions to implement targeted changes and achieve cost savings. Additionally, Green Audits can analyse the nature and volume of waste generated, leading to improved recycling programs or waste minimization plans.

Green auditing and the implementation of mitigation measures offer a win-win scenario for institutions, students, and the environment. It can foster health and environmental awareness, promoting values and beliefs that benefit everyone. Green Audits also provide an opportunity for staff and students to gain a deeper understanding of the impact their institution has on the environment.

Furthermore, Green Audits can translate into financial savings by encouraging a reduction in resource usage. This process also empowers students and teachers to develop a sense of ownership for personal and social environmental responsibility.

The Green Audit process typically involves collecting primary data, conducting a site visit with University representatives, and reviewing relevant policies, activities, documents, and records.

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(June 2023 to May 2024)**

**OBJECTIVE AND SCOPE**

The broad aims/benefits of the Environmental Audit/Green Audit would be

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Sustainable use of natural resource in the campus.
- Financial savings 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
- Enhancement of University profile
- Developing an environmental ethic and value systems in young people

**Outcomes OF ENVIRONMENT AUDIT TO EDUCATIONAL INSTITUTIONS**

There are many advantages of environment audit to an Educational Institute:

1. Protect the environment in and around the campus.
2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Empower the organization to frame a better environmental performance.
4. Portrays good image of institution through its clean and green campus.

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## Environmental Audit Report - Atmiya University, Rajkot (June 2023 to May 2024)

### 5) ENVIRONMENTAL POLICY



# ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act 11, 2018)  
Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

### Environment and Sustainability Policy for Green Campus

Atmiya University recognizes the critical importance of environmental sustainability and its role in minimizing ecological footprints. Guided by its commitment to the principles of conservation and harmony with nature, the university adopts this Policy to integrate environmental awareness and sustainable practices into its daily academic and administrative operations, education, and community engagement. This policy reflects the university's dedication to fostering a sustainable future.

#### Objective

Atmiya University strives to establish a clean, green, and sustainable campus by:

- Developing, monitoring, and evaluating a policy to guide green campus initiatives.
- Reducing the ecological footprint through sustainable practices.
- Educating students and staff on environmental issues and on building harmony with nature & mother earth to create a healthier, sustainable future.
- Promoting innovative environmental practices to enhance sustainability performance.
- Strengthening an environmentally responsible culture across curricular and extracurricular activities.
- Addressing local and regional environmental challenges with sustainable solutions.
- Ensuring sustainable resource use and minimizing wasteful practices.
- Protecting biodiversity and reducing environmental pollution.

#### Environmental Goals and Targets

The university sets specific goals such as reducing energy consumption, minimizing waste generation, conserving water, managing/recycling/disposal of waste, and promoting biodiversity to enhance its sustainability initiatives.

#### Key Focus Areas

1. **Clean Campus Initiatives:** Regular cleaning drives, waste segregation, and beautification projects.



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## Environmental Audit Report - Atmiya University, Rajkot (June 2023 to May 2024)



# ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act II, 2018)  
Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

2. **Green Energy:** Installing renewable energy sources to reduce dependency on non-renewable energy sources.
3. **Landscaping and Biodiversity:** Developing green spaces, planting neem trees, and conserving biodiversity.
4. **Energy Efficiency:** Installing energy-efficient appliances, natural lighting, and ventilation.
5. **Water Conservation:** Using rainwater harvesting systems, low-flow fixtures, and RO wastewater recycling.
6. **Waste Management:** Segregating solid, liquid, e-waste, and bio-waste for recycling and composting.
7. **Transportation and Mobility:** Promoting biking, carpooling, e-vehicles, and public transit.
8. **Green Building Standards:** Incorporating eco-friendly designs in construction and renovation projects.
9. **Curriculum Integration:** Courses on SDG awareness and environmental science across all disciplines.
10. **Community Engagement:** Conducting workshops, seminars, and outreach programs on environmental topics.

### Key Practices

#### 1. Energy Efficiency

- Transition to energy-efficient devices and systems.
- Encourage behaviour changes for energy conservation.
- Promote renewable energy solutions like solar and biogas.

#### 2. Waste Management and Recycling

- Comprehensive waste management with dedicated recycling and composting units.
- Initiatives like Parivartan (Paper Recycling Unit) and Sarjan (Agricultural Waste Recycling Unit) to create sustainable products.

#### 3. Water Conservation

- Installation of rainwater harvesting systems and reservoirs with a 17 lakh-litre capacity.
- Xeriscaping and responsible water usage to reduce dependency on municipal water.



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Atmiya University  
Rajkot



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## Environmental Audit Report - Atmiya University, Rajkot (June 2023 to May 2024)



# ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act 11, 2018)  
Yogisham Gurukul, Kalwad Road, Rajkot - 360005, Gujarat (INDIA)

### 4. Biodiversity and Green Spaces

- Develop gardens, tree plantations, and outdoor educational spaces to promote biodiversity.
- Integrate sustainable farming practices using Panchgavya and Jivamrut fertilizers.

### 5. Transportation and Mobility

- Establish e-vehicle charging stations, bike racks, and pedestrian-friendly paths.

### 6. Education and Awareness

- Organize campaigns like Use Solar-Save Nature, Save Energy-Water and tree plantation drives.
- Include sustainability topics in the curriculum to foster awareness and innovation.

### Implementation and Monitoring

- **Incentives and Recognition:** Reward active participants in sustainability efforts.
- **Budget and Funding:** Allocate resources for projects and seek grants for sustainability initiatives.
- **Compliance and Legal Adherence:** Ensure alignment with relevant environmental laws and regulations.
- **Periodic Review:** Monitor the policy's impact and revise based on feedback and emerging challenges.

### Conclusion

Adopting this Policy highlights Atmiya University's unwavering commitment to environmental stewardship and sustainable development. By fostering a culture of awareness and proactive participation, the university aspires to create a greener and healthier campus, setting a benchmark for future generations. Together, we will build a resilient and sustainable future.



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Atmiya University  
Rajkot

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### Environmental Audit Report - Atmiya University, Rajkot (June 2023 to May 2024)

6) **GENERAL INFORMATION**

- a. Does any Green Audit conducted earlier? **Yes**
- b. Total Area of the University = 84455 m<sup>2</sup>
- c. What is the total strength (people count) of the Institute?

AY	Students			Teaching Staff			Non-Teaching Staff			Total		
	M	F	Trans	M	F	Trans	M	F	Trans	M	F	Trans
2023-24	3964	2315	0	184	154	0	208	37	0	4356	2506	0

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

Month (AY- 2023-2024)	No. of Working Days
June	21
July	24
August	25
September	17
October	22
November	26
December	24
January	25
February	24
March	23
April	24
May	26
<b>Total</b>	<b>281</b>



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### Environmental Audit Report - Atmiya University, Rajkot (June 2023 to May 2024)

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

Municipal dump yard	No
Garbage heap	No
Public convenience	Yes
Sewer line	Yes
Stagnant water	No
Industry	No
Bus / Railway station	Yes
Market / Shopping complex	Yes
Play Ground	Yes

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

Type of waste	Response	Detail(s) of Waste Generated	Quantity of Waste Generated (kg)	
Solid	Biodegradable	Yes	Gardening, Cow dung	175
	Non-biodegradable	Yes	Sweeping waste,	10
	e-waste	Yes	Computer, Battery	00
Liquid	Yes	Kitchen Waste	35	
Gas	No	--	--	

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

- Composting: Gardening and cow dung waste used to make compost.
- Non-recyclable and non biodegradable waste disposal is managed by the Rajkot Municipal Corporation.

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**Environmental Audit Report - Atmiya University, Rajkot  
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- h.** Do you use recycled paper in institute? Yes  
**i.** How would you spread the message of recycling to others in the community?

Poster competition activities	<b>Yes</b>
Campaigns	<b>Yes</b>
Webinars and seminars	<b>Yes</b>

- j.** Is there a garden in your institute?

<b>Garden</b>	<b>Yes</b>	<b>Area = <u>6732.26m<sup>2</sup></u></b>
---------------	------------	-------------------------------------------

- k.** Total number of Plants in Campus?

<b>SN</b>	<b>Namepd Species</b>	<b>Numbers</b>
1	Neem Tree	211
2	Lemon cypress	1
3	FicusMicrocapra	100
4	Hedge Plant	01
5	Tajplantshub dracaena	01
6	Crown of Throns	01
7	Spanish Moss (TilandsiaUsneoides)	10
8	Ruellia simplex	51
9	FagusSylvatica plant	01
10	Euphorbia Tithymaloides	11
11	Weeping Fig	685
12	LysilomaWatsonil	01

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13	Royal Palm	38
14	Bamboo	230
15	Moringa	01
16	Acalyphawilkesiana	300
17	Dracaena Angustifolia	11
18	<i>Polysciasscutellaria</i>	04
19	<u>Cordylinefruticosa</u>	40
20	Dracaena Reflexa	500
21	Garden Croton	01
22	polysciasguilfoylei	10
23	Oyster Plant (tradescantiazebrina)	300
24	Lonicerapileata	50
25	Saribusrotundifolius	10
26	Ixora	10
27	Hyophorbelagenicaulis	20
28	Purple heart	150
29	Yellow cosmos (sulphur cosmos)	100
30	Canna discolor	15
31	Durantaerecta	1100
32	Pritchardiapacifica	11
33	Capparissandwichiana	50
34	Nerium Oleander	10
35	Casuarinaequisetifolia	20

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36	Caryotaurens	2
37	Areca palm	20
38	Ravenala	10
39	Iresineherbstii	300
40	Sago Plam	22
41	Sphgneticolatrilobata	1500
42	Thuja	24
43	Dracaena trifasciata	62
44	Ponytail Palm	2
45	Asparagus densiflorus	50
46	Alocasiazebrina	02
47	Bismarck palm	8
49	Lotus	100
50	Catharanthus	50
51	Padavati Jasmin	50
52	Caryotamitis	04
53	Monoonlongifolium	3
54	Breyniadicsticha	50
55	PlumeriaObtusa	10
56	Alovera	100
57	Century Plant	30
58	Sweet osmanthus	1
59	Crinum asiaticum	27

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60	Diantherapectoralis	200
61	Hibiscus	10
62	Ficusaspera	5
63	Mulberry tree	10
64	Barbary fig	5
65	Dracaena angolensis	2
66	Terminaliachebula plant	2
67	Nettlespurges	2
68	Yellow elder	2
69	MadhucaLongifolia	2
70	Eucalyptus globulus.	1
71	Melicoccusbijugatus	1
72	Casuarinaequisetifolia	1
73	Indian jujube	5
74	Tulsi	50
75	Coconut palm tree	8
76	Calotropisgigantea	1
77	Persian Silk	5
78	Mango tree	1
79	Curry Tree	4
80	Punicagranatum	5
81	Pandanusveitchii	50
82	Streblusasper	5

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**I. List uses of water in your institute**

Basic use of water in campus	KL/Day
Drinking	15
Gardening	17
Kitchen and Toilets	20
Others	15
Hostel	29
<b>Total</b>	<b>96 KL/Day</b>

**m. Electricity Consumed**

Month (Academic Year 2023-2024)	Electricity Consumed (kWh)
June	1,88,249
July	1,89,466
August	2,10,645
September	1,68,646
October	1,74,560
November	1,70,390
December	1,30,250
January	1,33,775
February	1,44,080
March	1,69,550
April	2,02,600
May	2,26,740
<b>Total</b>	<b>21,08,951</b>

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### Environmental Audit Report - Atmiya University, Rajkot (June 2023 to May 2024)

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

Building	SN	Tank Description	Size (litre)	No. of Tank	Capacity (litre)
AU Building	1	Raw Water- A Wing	2500	4	10000
	2	Raw Water- B Wing	2500	4	10000
	3	Master RO - Raw Water	5000	3	15000
	4	RO Water Tank	2500	7	17500
	5	Pharmacy and Mechanical Lab	2000	1	2000
	6	Faculty Block (A& B Wing)	2500	2	5000
	7	Library Terrace	2000	1	2000
	8	Raw Water Near AU Building- Underground	275000	1	275000
MPAB	9	RO Water - at Terrace	2000	2	4000
	10	Raw Water- at Terrace	60000	1	60000
	11	Raw Water- at Terrace	40000	7	280000
	12	Near Building- Undrground	333746	2	667492
	13	Near Building- Undrground	336826	2	673652
	14	Below Temple- Underground	189924	1	189924
	15	Below Temple- Underground	43718	1	43718
	16	In Front of Store- Underground	123604	1	123604

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Workshop	17	RO Water- at Terrace	2000	1	2000
	18	Raw Water- at Terrace	2000	2	4000
	19	Raw Warer- at Terrace	5000	1	5000
	20	Behind Workshop- Round Tank- Underground	45650	1	45650
Science Building	21	RO Water- at Terrace	2500	1	2500
	22	Raw Water Tank- at Terrace	23300	2	46600
	23	Raw Water Tank- Ladies Toilet	30000	3	90000
	24	CIF Lab	1500	1	1500
	25	Raw Water- OTIS- Underground	32620	1	32620
	26	Wastewater- Outside the Building	2000	1	2000
Yogidham Gate	27	Raw Water Tank- Underground	48750	4	195000
Niramay	28	RO Water Tanki at Terrace	2500	1	2500
	29	Raw Water Tank- at Terrace	11650	1	11650
	30	Raw Water Tank- Near Office	5000	2	10000
Sarvanaman	31	Raw Water Tank- at Terrace	2000	1	2000
	32	Raw Water Tank- at Terrace	8550	1	8550
	33	Raw Water- inside building	600	1	600
<b>Total Water Storage Capacity</b>					<b>28,41,060</b>

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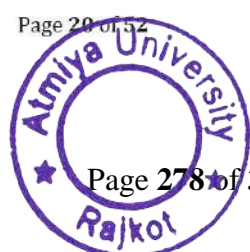
**7) GREEN INITIATIVES BY THE INSTITUTE**

**Green Architecture**

The incorporation of green architecture principles in academic institutions not only reduces environmental impact but also fosters a healthier and more inspiring learning environment for students and faculty alike. By integrating features such as passive solar design, natural ventilation, and green roofs, these institutions showcase a commitment to sustainability while promoting innovation and awareness of eco-friendly design practices within the academic community.



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**Natural Light and Ventilation in Academic Building**

**Impact:**

- Low artificial lighting requirements
- Energy consumption optimization
- Low green house gas emission
- Low level of strain to Eyes

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**Campus Biodiversity**

A thriving campus biodiversity in academic institutions is not merely a reflection of ecological health but also serves as a testament to the institution’s commitment to sustainability and environmental stewardship. It provides a living laboratory for students to engage with nature firsthand, fostering a deeper understanding of ecological systems and instilling a sense of responsibility towards conservation. Beyond its educational value, a biodiverse campus offers numerous benefits such as improved air and water quality, enhanced aesthetics, and increased resilience to environmental stressors. It becomes a sanctuary for wildlife, contributing to the preservation of local ecosystems and biodiversity at large. Atmiya University campus is a rich in the biodiversity with the full of greenery and in house terrace garden.



**Glimpse of Flora at University Campus**

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**Terrace Farming Capacity (Niramaya)**

**Installation Detail**

- Total Area: 800 Square meter
- Three different farming: Hydroponics , Vertical and Terrace

**Hydroponic farming**

- method of growing plants without soil, using a nutrient-rich water solution to deliver essential nutrients directly to the plants' roots
- Tomato, Basil and mint grown by using this method.

**Vertical farming**

- vertical farming utilizes vertical space
- growing crops in vertically stacked layers
- Vertical farming reduces the need for extensive land use.

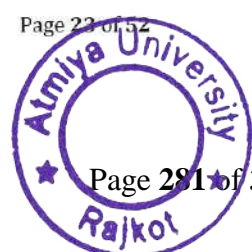
**Terrace garden**

- The following are grown in the terrace garden
- Grapes, Calabash and asparagus bean are grown using this method.

**Impact of terrace farming**

- Controlled environments can reduce the need for pesticides, as pests and diseases are less likely to affect crops grown indoors
- Terrace gardens act as natural insulators, reducing the need for artificial heating and cooling within the building. This can lead to energy savings and lower electricity bills.
- Students get the practical knowledge of terrace farming in the urban environment that can be replicated and implemented at their home and society.

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**Terrace Garden (Niramay) at University Campus**

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**Gaushala at Campus**

- 24 Indian Breed Cow
- 01 Bull
- State of the art facilities
- Value addition cow urine for herbal and fertilizer utilization
- Decorative products are being made from the cow dung.
- Jivamrut fertilizer being used in the campus is a product of gaushala.
- It contributes to maintain the organic carbon content in the campus soil as it provides the raw material for the compost.



**SatyakamGaushala**

It provides students with firsthand experience in animal care, veterinary science, and sustainable agriculture. They can learn about the importance of cows in Indian culture, their significance in agriculture, and sustainable farming practices.

Gaushalas contributes to the eco-friendly practices like composting cow dung for fertilizer, using biogas for cooking which can serve as models for sustainable living and agriculture.

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In Indian cultures, cows are revered as sacred animals. Having a gaushala on campus can help preserve and promote this cultural heritage among students and the community.

Universities can conduct research on various aspects of cow rearing, including breeding, nutrition, and healthcare. This research can contribute to advancements in animal science and agriculture.

Cows play a crucial role in maintaining soil fertility through their dung, which is rich in nutrients. By managing cow waste effectively, gaushalas can contribute to soil health and environmental conservation.

**Solid Waste Management**

**Natural Fertilizer from Organic Waste**

**Jivamrut (Natural Fertilizer)**

Installation Detail:

- Year: 2008
- Place: at boys parking
- Process: Collect neem leaves form campus and added with cow dung, cow urine and Earthworms

**Amrut Soil**

- Ingredients for AmrutMitti range from cow dung, cow urine, biomass like dry and decayed leaves, household kitchen waste like vegetable peels.
- AmrutSoil is full of all nutrients needed by plants, is very rich in variety of microbes, has the right pH, has high carbon content, has excellent water holding capacity.
- Mixing Cow dung, cow urine and jaggery
- Immersing dry biomass in AmrutJal kept in drums
- Process take at least 1 month
- Use as garden fertilizer.

**Impact:**

- Applied in garden as fertilizer
- Improve soil micro-biota of campus soil
- Less usages of chemical fertilizer

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Figure 6: Amrut Soil and Jivamrut Plant

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(June 2023 to May 2024)**

**Municipal Solid Waste Segregation Bin**

University campus having more the 100 solid waste collection dustbin design for the proper waste segregation. Waste paper is recycled at the in-house paper recycling facility and converted into the filter paper, envelope and other artistic and decorative products.

Having separate bins encourages people to sort their waste, making it easier to recycle materials such as paper, plastic, glass, and metal. This promotes a culture of recycling and reduces the amount of waste sent to landfills or incinerators.

Recycling materials reduces the need for raw materials, energy, and water required to manufacture new products. This conserves natural resources and reduces the environmental impact associated with extraction, processing, and transportation.

Implementing separate bins provides an opportunity for educational initiatives on waste management, recycling, and environmental stewardship. Students, faculty, and staff can learn about the importance of recycling and how their actions contribute to sustainability.



**Separate Dustbin for Recyclable and Non-Recyclable Waste**

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**Paper Recycling Unit**

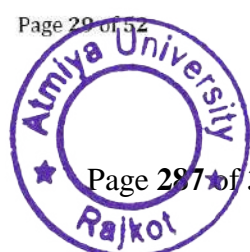
In embracing the principles of the circular economy, Atmiya university is pioneer in sustainable practices such as paper recycling, ensuring that resources are reused and regenerated rather than disposed of after single use. By implementing robust paper recycling programs, these institutes not only reduce waste and environmental impact but also cultivate a culture of resource efficiency and responsible consumption among students, faculty, and staff.

Recycling paper can lead to cost savings for the university by reducing waste disposal fees and the need to purchase new paper products. This can free up financial resources that can be allocated to other campus initiatives or projects.



**Parivartan- Paper Recycling Plant**

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**Plastic Water Bottle Recycling Plant**

University have installed water bottle recycling plant at entrance for all stakeholders having capacity of 20 kg/day

A bottle crusher helps reduce the volume of plastic bottles, thereby decreasing the amount of plastic waste generated on campus. This contributes to waste reduction efforts and helps minimize the environmental impact of plastic pollution.

By providing a convenient way to crush plastic bottles, the crusher encourages recycling behavior among students, faculty, and staff. It reinforces the importance of recycling and helps divert plastic waste from landfills or incinerators.

Plastic pollution poses significant threats to ecosystems, wildlife, and human health. By reducing plastic waste through recycling, a bottle crusher helps protect the environment and minimize the adverse effects of plastic pollution on marine life, terrestrial habitats, and waterways.



**Plastic Bottle Crusher Machine**

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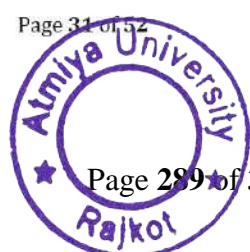
**Energy Conservation Measures**

**Renewable Power Generation**

The adoption of solar rooftop systems in Atmiya university significantly reduces carbon emissions, contributing to a cleaner and more sustainable environment while serving as a tangible demonstration of the institute's commitment to renewable energy and climate action. Additionally, the integration of solar rooftops enhances the educational experience by providing real-world examples of sustainable technology, inspiring students to explore and innovate in the field of renewable energy. Atmiya University having fully operational solar rooftop electricity generation capacity as per the vision of the government.



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**Rooftop Solar Plant  
Renewable Power Generation per Month**

Month & Year	RE Cultivation in KWh
Jun-23	50,144
Jul-23	38,736
Aug-23	41,520
Sep-23	25,616
Oct-23	18,080
Nov-23	41,280
Dec-23	42,400
Jan-24	44,640
Feb-24	47,840
Mar-24	62,720
Apr-24	67,040
May-24	67,200
<b>Total</b>	<b>547,216 KWh</b>

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**Energy Efficient Electrical Appliances**

Energy-efficient infrastructure in institutions not only lowers operational costs but also serves as a beacon of sustainable practices, showcasing the institution's dedication to environmental stewardship and responsible resource management. By implementing measures such as LED lighting, efficient HVAC systems, and smart building technologies, these institutions demonstrate leadership in sustainability while providing a conducive learning environment for students and faculty.



**LED Lighting and 5 Star Rated Appliances**

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(June 2023 to May 2024)**

**Electrical Vehicle Charging Station**

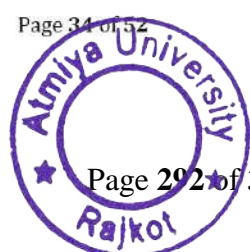
The installation of electrical charging stations at university campus demonstrates a proactive approach towards supporting sustainable transportation options for students, faculty, and visitors, thereby reducing reliance on fossil fuels and promoting the adoption of electric vehicles. These stations not only facilitate the transition towards cleaner modes of transportation but also serve as educational tools, raising awareness about the benefits of electric vehicles and contributing to a culture of environmental responsibility within the campus community.



**IEC 61851-1 Compliance**

**Electronic Vehicle Charging Station**

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**Water Management**

Water conservation is a key activity as water availability affects on the development of the campus as well as on all area of development such as farming, industries, etc. Keeping this view water conservation activity is carried out.

**Sources of Water**

- Rainwater Harvesting
- Bore water
- A Main source of water is RMC connection and Ground water is extracted to fulfill the requirement. The University stores the water in overhead tank.

**Sewage Disposal Facility**

Atmiya University is situated in the municipal area of Rajkot. RMC (Rajkot Municipal Corporation) provides municipal facilities to the university. Sewage is being disposed in the sewerage network of Rajkot city.

**RO Plant**

RO plants provide clean and safe drinking water by removing contaminants, such as bacteria, viruses, and dissolved solids, from the water. This ensures that students, faculty, and staff have access to safe drinking water, promoting better health and well-being. With access to clean drinking water on campus, there is less reliance on bottled water. This can lead to a significant reduction in plastic waste generated by the university, contributing to environmental sustainability efforts.



**Reverse Osmosis Plant for Drinking Water**

**Rainwater Harvesting**

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**Capacity : 12 Lac Liters**

**Environmental Benefits:** By reducing the demand for potable water and minimizing stormwater runoff, rainwater harvesting contributes to environmental conservation efforts. It helps preserve freshwater resources, protects aquatic ecosystems, and mitigates the impacts of urbanization on natural hydrological cycles.

**Water Conservation:** Rainwater harvesting reduces reliance on traditional water sources by collecting and storing rainwater for various uses, such as irrigation, flushing toilets, and landscape maintenance. This helps conserve freshwater resources and reduces the strain on municipal water supplies, especially during periods of drought or water scarcity.



**Rainwater Harvesting Tank**

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(June 2023 to May 2024)**

**Air Pollution Control Measures**

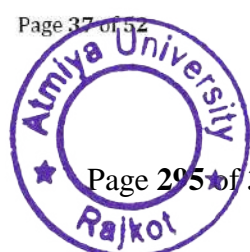
**Acidic Fume Suction Panel**

Laboratory of chemistry department is equipped with the vapour suction panel mounted on the platform. It collects the hazardous gas and channelizes it to the wet scrubber for the neutralizing before discharge into the atmosphere.



**Acidic Fume Suction Panel**

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**Environmental Audit Report - Atmiya University, Rajkot  
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**Fume Hood at Chemistry laboratory**

Fume hoods are designed to contain and exhaust potentially hazardous fumes, vapors, and gases generated during chemical experiments. They create a barrier between the experiment and the laboratory environment, preventing exposure to toxic or harmful substances. Fume hoods protect laboratory personnel from inhaling harmful chemicals or being exposed to hazardous substances.



**Fumehood at Chemistry Laboratory**

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**Wet Scrubber**

- 1. Reduction of Air Pollution:** Scrubbers help remove harmful gases, such as hydrogen chloride (HCl) and hydrogen fluoride (HF), from the laboratory air. By capturing these pollutants before they are released into the atmosphere, scrubbers contribute to reducing air pollution and improving indoor and outdoor air quality.
- 2. Prevention of Acid Rain Formation:** Hydrogen chloride and hydrogen fluoride emissions can contribute to the formation of acid rain when released into the atmosphere. Alkali gas scrubbers mitigate this environmental impact by removing these acidic gases from laboratory emissions before they can react with moisture in the air and contribute to acid rain formation.
- 3. Protection of Ecosystems:** Acid rain resulting from air pollution can have detrimental effects on ecosystems, including damage to vegetation, soil, aquatic habitats, and wildlife. By reducing the emission of acidic gases, alkali gas scrubbers help protect sensitive ecosystems and promote biodiversity conservation.
- 4. Minimization of Health Risks:** Hydrogen chloride and hydrogen fluoride are corrosive and toxic gases that can pose health risks to laboratory personnel and surrounding communities if released into the environment. Alkali gas scrubbers help minimize these risks by capturing and neutralizing these hazardous pollutants before they can be emitted.
- 5. Reduction of Odors:** In addition to removing acidic gases, alkali gas scrubbers can also help eliminate unpleasant odors associated with certain chemical processes in the laboratory. This improvement in air quality enhances the comfort and well-being of laboratory personnel and visitors.

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6. **Conservation of Resources:** Alkali gas scrubbers typically utilize alkaline solutions, such as sodium hydroxide (NaOH), to neutralize acidic gases. While the operation of scrubbers requires resources such as water and chemicals, their use contributes to the conservation of environmental resources by preventing the release of pollutants into the air and minimizing the need for remediation measures.



**Wet Gas Scrubber**

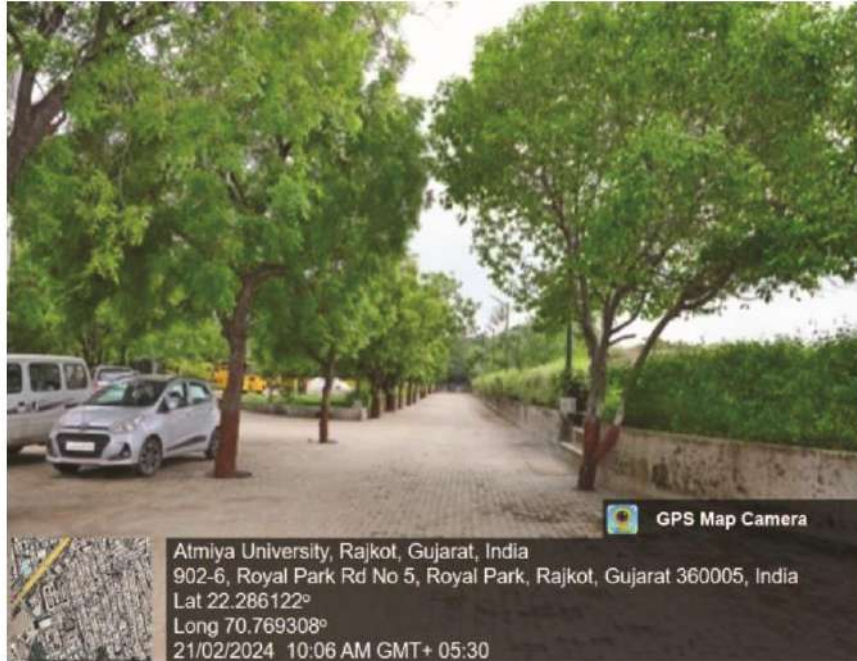
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**Tree Plantation**



**Greenery at Atmiya University Campus**

University campus is full of indigenous tree and medicinal plants produce positive impact on environment.

- **Air Quality Improvement:** Trees and plants act as natural air filters, absorbing carbon dioxide (CO<sub>2</sub>) and other pollutants from the air while releasing oxygen through the process of photosynthesis. This helps improve air quality on campus, reducing the concentration of harmful gases and particulate matter and promoting a healthier environment for students, faculty, and staff.
- **Carbon Sequestration:** Trees play a crucial role in mitigating climate change by sequestering carbon from the atmosphere and storing it in their biomass. By planting trees on campus, universities can contribute to carbon sequestration efforts and help offset their carbon footprint, supporting broader sustainability goals and initiatives.

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- **Temperature Regulation:** Trees provide natural shade and evapotranspiration, helping to cool the surrounding environment and reduce the urban heat island effect. By creating shaded areas and lowering ambient temperatures, trees contribute to energy conservation efforts by reducing the need for air conditioning and mitigating heat-related stress during hot weather.
- **Storm water Management:** The roots of trees and plants help absorb rainwater and reduce runoff, preventing soil erosion and minimizing the risk of flooding and water pollution. By incorporating green infrastructure such as rain gardens and bio swales, university campuses can effectively manage storm water runoff, improve water quality, and enhance overall watershed health.
- **Biodiversity Conservation:** Trees and plants provide habitat and food sources for various species of birds, insects, and other wildlife, contributing to biodiversity conservation on campus. By creating green corridors and natural habitats, universities support local ecosystems and promote ecological resilience in urban environments.
- **Noise Reduction:** Trees and vegetation help absorb and deflect sound waves, acting as natural buffers against noise pollution from nearby roads, buildings, and other sources. By planting trees strategically around campus buildings and outdoor spaces, universities can create quieter and more tranquil environments conducive to learning, research, and relaxation.

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**Environmental Audit Report - Atmiya University, Rajkot  
(June 2023 to May 2024)**

**8) AUDIT METHODOLOGY**

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The criteria, methods and recommendations used in the audit were based on the identified risks. The methodology includes: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the document, interviewing responsible persons and data analysis, measurements and recommendations. The methodology adopted for this audit was a three-step process comprising of:

**1. Data Collection** – In preliminary data collection phase, exhaustive data collection was performed using different tools such as observation, survey communicating with responsible persons and measurements.

Following steps were taken for data collection:

- Site Visit
- Data about the general information was collected by observation and interview.
- The power consumption of appliances was recorded by taking an average value in some cases.

**2. Data Analysis** - Detailed analysis of data collected include: calculation of energy consumption, analysis of latest electricity bill of the campus, Water consumption, Waste Generation and Greenery Management.

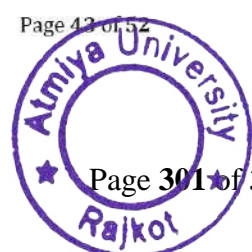
**3. Recommendation** – On the basis of results of data analysis and observations, some steps for reducing power and water consumption were recommended. Proper treatments for waste were also suggested. Use of fossil fuels has to be reduced for the sake of community health.

The above target areas particular to the University was evaluated through questionnaire circulated among the students for data collection.

The following data collected for the following areas during the assessment.

1. Environment & Waste Management
2. Energy Management
3. Water Management

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**9) MONITORING, OBSERVATIONS & RECOMMENDATIONS**

**Ambient Air Quality Monitoring**

**Date: 21/02/2024**

Location	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
AU Building Main Entrance	43.7	29.4	17.1	21.3
B/H Ashwad canteen	45.6	26.2	13.3	18.4
Nr. Bus parking	59.4	31.2	15.6	23.2
Nr. Haridarshanam Temple	51.8	36.3	17.4	24.6

**Noise Monitoring**

**Date: 21/02/2024**

Location	Observed Value (db (A))	Permissible Day Time Limit (db (A))
AU Building Main Entrance	48	50
B/H Ashwad canteen	45	
Nr. Bus parking	47	
Nr. Haridarshanam Temple	46	

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**Water Analysis Report  
TEST REPORT**

<b>Sample Description</b>	Borewell Water from VIP Parking Area
<b>Sample collection Date</b>	21/02/2024
<b>Sample analysis date</b>	21/02/2024 to 25/02/2024
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	Taste	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	Odour	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	pH	7.9	-	6.5 to 8.5	IS 3025 ( Part 11)
4	Total Dissolved Solids (TDS)	353.925	mg/l	500 max	IS 3025 ( Part 16)
5	Chloride	50.42	mg/l	250 max	IS 3025 (part 32)
6	Turbidity	<1	NTU	1.0 Max	IS 3025 (part 10)
7	Total Hardness (as CaCO <sub>3</sub> )	88.2	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	TLTC (< 7 colonies )
<b>MacConkey Plates</b>	TLTC (< 3 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

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**Water Analysis Report**

**TEST REPORT**

<b>Sample Description</b>	Borewell Water from Yogidham Gate 3
<b>Sample collection Date</b>	21/02/2024
<b>Sample analysis date</b>	21/02/2024 to 21/02/2024
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.8	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	211.2	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	15.92	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	52.0	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	TLTC (< 5 colonies )
<b>MacConkey Plates</b>	No Colonies Observed
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

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(June 2023 to May 2024)**

**Water Analysis Report  
TEST REPORT**

<b>Sample Description</b>	Borewell Water Near Boy's Hostel
<b>Sample collection Date</b>	21/02/2024
<b>Sample analysis date</b>	21/02/2024 to 21/02/2024
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	Taste	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	Odour	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	pH	7.84	-	6.5 to 8.5	IS 3025 ( Part 11)
4	Total Dissolved Solids (TDS)	321.2	mg/l	500 max	IS 3025 ( Part 16)
5	Chloride	23.5	mg/l	250 max	IS 3025 (part 32)
6	Turbidity	<1	NTU	1.0 Max	IS 3025 (part 10)
7	Total Hardness (as CaCO <sub>3</sub> )	48.2	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	TMTC ( > 100 colonies )
<b>MacConkey Plates</b>	TMTC ( > 100 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

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(June 2023 to May 2024)**

**Water Analysis Report  
TEST REPORT**

<b>Sample Description</b>	Borewell Water near Temple
<b>Sample collection Date</b>	21/02/2024
<b>Sample analysis date</b>	21/02/2024 to 25/02/2024
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	<b>Taste</b>	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	<b>Odour</b>	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	<b>pH</b>	7.92	-	6.5 to 8.5	IS 3025 ( Part 11)
4	<b>Total Dissolved Solids (TDS)</b>	421.2	mg/l	500 max	IS 3025 ( Part 16)
5	<b>Chloride</b>	35.23	mg/l	250 max	IS 3025 (part 32)
6	<b>Turbidity</b>	<1	NTU	1.0 Max	IS 3025 (part 10)
7	<b>Total Hardness (as CaCO<sub>3</sub>)</b>	68.2	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	TLTC (< 5 colonies )
<b>MacConkey Plates</b>	TLTC (< 4 colonies )
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

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**Environmental Audit Report - Atmiya University, Rajkot  
(June 2023 to May 2024)**

**Water Analysis Report  
TEST REPORT**

<b>Sample Description</b>	Drinking Water- AU Main Building
<b>Sample collection Date</b>	21/02/2024
<b>Sample analysis date</b>	21/02/2024 to 21/02/2024
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	Taste	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	Odour	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	pH	7.70	-	6.5 to 8.5	IS 3025 ( Part 11)
4	Total Dissolved Solids (TDS)	121.2	mg/l	500 max	IS 3025 ( Part 16)
5	Chloride	19.87	mg/l	250 max	IS 3025 (part 32)
6	Turbidity	<1	NTU	1.0 Max	IS 3025 (part 10)
7	Total Hardness (as CaCO <sub>3</sub> )	38.2	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
EMB plates	No Colonies Observed
MacConkey Plates	No Colonies Observed
Single strength MPN broth	No Colour change, No Gas production
Double strength MPN broth	No Colour change, No Gas production

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(June 2023 to May 2024)**

**Water Analysis Report  
TEST REPORT**

<b>Sample Description</b>	Drinking Water- Science Building
<b>Sample collection Date</b>	21/02/2024
<b>Sample analysis date</b>	21/02/2024 to 25/02/2024
<b>Quantity of Sample</b>	2.5 liters

**Test Result**

Sr. No.	Test Parameter	Results	Units	Desirable limit As per IS 10500:2012	Test method
1	Taste	Agreeable	-	Agreeable	IS 3025 (Part 7&8)
2	Odour	Unobjectionable	-	Unobjectionable	IS 3025 ( Part 5) 1983
3	pH	7.80	-	6.5 to 8.5	IS 3025 ( Part 11)
4	Total Dissolved Solids (TDS)	184.2	mg/l	500 max	IS 3025 ( Part 16)
5	Chloride	17.63	mg/l	250 max	IS 3025 (part 32)
6	Turbidity	<1	NTU	1.0 Max	IS 3025 (part 10)
7	Total Hardness (as CaCO <sub>3</sub> )	28.2	Mg/l	200 max	IS 3025 (part 21)

**Microbial Analysis**

Test	Observation
<b>EMB plates</b>	No Colonies Observed
<b>MacConkey Plates</b>	No Colonies Observed
<b>Single strength MPN broth</b>	No Colour change, No Gas production
<b>Double strength MPN broth</b>	No Colour change, No Gas production

\*TLTC-Too Less To Count

\* TMTC-Too Much To Count

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(June 2023 to May 2024)**

**OBSERVATIONS:**

1. Land Use: The University campus spread over 23.5 Acres of land.
2. Green Initiatives: The University supports efforts to eliminate plastic from campus. Students are advised to avoid using plastic on campus. The University organizes regular cleanliness drive to collect biodegradable and non-biodegradable waste. e-waste are cleaned periodically by recognised & authorised recyclers. Biodegradable waste is self-composting.
3. Fire & Safety: The University building is also safe through state of the art housed Fire safety system.
4. Energy Consumption: While the University has a solar energy generation facility, the overall energy consumption patterns, including electricity, water, and other resources, should be assessed to identify potential environmental impacts and energy efficiency opportunities.
5. Potential for Water Harvesting: The presence of a functional borewell suggests potential for implementing rainwater harvesting systems to further conserve water resources.
6. Community Engagement Potential: The University's environmental efforts be extended to engage the local community in sustainability practices.
7. Beautiful Campus Greenery: The presence of over 5,00+ neem trees on campus creates a pleasant and environmentally friendly atmosphere.
8. Abundant Natural Light: The well-designed University building maximizes natural light, promoting energy efficiency and a positive learning environment.

**RECOMMENDATIONS:**

1. Install sensor-based faucets in washrooms and urinals to minimize water waste.
2. Develop a dense plantation area using the Miyawaki method to become a role model & leading example for other state & private universities to demonstrate creation of oxygen bank and enhance campus greenery.
3. Conduct drive to promote energy conservation, potentially including a designated "power saving day" each quarter.
4. Establish a regular cleaning and maintenance schedule for the rooftop solar panels to ensure optimal energy production.

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### Environmental Audit Report - Atmiya University, Rajkot (June 2023 to May 2024)

#### 10) CERTIFICATE



SWAMI SHREEJI

SARVODAY KELAVANI SAMAJ MANAGED

**Shri Manibhai Virani & Smt. Navalben Virani Science College**

(An Autonomous College affiliated to Saurashtra University, Rajkot)

NAAC Assessment & Accreditation Cycle - III: 'A++' grade with CGPA 3.65 on 4 point scale

#### Environmental Audit Certificate For the Period: June 2023 to May 2024



This certificate confirms that an Environmental/Green Audit was conducted at **Atmiya University, Rajkot**, to assess the implementation of green initiatives and eco-friendly practices, particularly in the area of Green Campus Management.

The audit assessed the authenticity of the data provided by the institution and the effectiveness of its sustainability efforts. The recommendations outlined in the audit report are based on the information available at the time of the audit.

I assure that the data presented is authentic to the best of my knowledge & I agree to comply with the recommendations received this report within a year at maximum after the internal review.

<p><b>Dr. Divyang D. Vyas,</b> Registrar, Atmiya University, Rajkot-360005-Gujarat-India</p>	  <b>Registrar</b> Atmiya University Rajkot
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The audit concluded that the environmental quality on campus is found **adequate and efficacious** and meets the required standards.

<p><b>Ravi S. Tank</b> (Recognised Schedule-I Environmental Auditor, Gujarat Pollution Control Board- GPCB Gandhinagar, Gujarat)</p> <p>I/c Director, Environmental Audit &amp; Consultancy Cell, Shri Manibhai Virani &amp; Smt. Navalben Virani Science College, Yogidham Gurukul, Kalawad Road, Rajkot-360005-Gujarat-India</p>	  <b>I/C Director,</b> Environmental Audit & Consultancy Cell, Shri Manibhai Virani & Smt. Navalben Virani Science College, Rajkot
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**Please note:**

- This certificate is valid only for the specified audit period.
- The certificate may be revoked if there are changes to the institution's green practices or if the provided data is found to be misleading.
- The audit findings are solely based on the data submitted by the institution and the observations made by the audit team during the audit.

**Environmental Audit & Consultancy Cell.  
Shree M. & N. Virani Science College, Rajkot**





SWAMI SHREEJI

SARVODAY KELAVANI SAMAJ MANAGED

## Shri Manibhai Virani & Smt. Navalben Virani Science College

(An Autonomous College affiliated to Saurashtra University, Rajkot)

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 <b>ATMIYA UNIVERSITY</b>	<b>NAAC – Cycle – 1</b> <b>AISHE: U-0967</b>	
	<b>Criterion 7</b>	<b>I V &amp; B P</b>
	<b>KI 7.1</b>	<b>M 7.1.3</b>

**1.9 CO-CURRICULAR COURSE ENTITLED “TREATMENT OF ENVIRONMENTAL WASTE”**



Name of the program	Semester	Name of the Course	Course Code	Course Type (Theory / Practical)	Type (Compulsory/ Elective)	Total No of Students Benefitted
All UG Programs	All UG	SEC 2: CoC - Treatment of Environmental Waste	21AECO012	Theory	Elective	108







**ATMIYA  
UNIVERSITY**

NAAC – Cycle – 1  
AISHE: U-0967

Criterion 7

I V & B P

KI 7.1

M 7.1.3

**1.10 DEDICATED SUPPORT STAFF & FACILITIES FOR WASTE COLLECTION, SEGREGATION & DISPOSAL**



**વર્ક ઓર્ડર**

પ્રતિ,  
ઈન્ફીનીટી સર્વીસીસ  
ત્રીજા માળે, ૩૦૧ અવની પેલેસ,  
ગ્રોળ હાઈટસ સ્ટ્રીટ પાછળ,  
ગોવાણી છાત્રાલય સામે, રાજકોટ.

No. AU/HouseKeeping/WO/50-2024-25  
Date:-14-05-2024

વિષય :- હાઉસ-કીપીંગ વર્ક અંતર્ગત અલગ-અલગ જગ્યાએ સફાઈ તથા સ્વચ્છતા જાળવવાના કામ બાબત..

સંદર્ભ :- આપના તરફથી મળેલ ભાવ પત્રક તા.૧૦-૦૫-૨૦૨૪

સાયન્સ બિલ્ડીંગ સ્થિત જણાવેલ બીલ્ડીંગ તથા આજુબાજુની પેરીફરીમાં આવેલ તમામ એરીયામાં સ્વીપર તથા મશીનરીના ઉપયોગ દ્વારા સંસ્થા જણાવે તે પ્રમાણેના ક્લીનીંગ શેડ્યુલ મુજબ નિયમીત સફાઈ કરાવી, સ્વચ્છતા જળવાય રહે તેનું એજન્સીએ રોજબરોજ સુપરવીઝન કરી, તેમને સોંપવામાં આવેલ એરીયાનું ધ્યાન રાખવાનું રહેશે.

**કરારની સામાન્ય શરતો:-**

૧. સાયન્સ બિલ્ડીંગમાં આવેલ Basement to 3<sup>rd</sup> Floor લોબી, ટોઈલેટ બ્લોક, અગામી તથા આજુબાજુની પેરીફરીમાં આવેલ રોડ વિગરની તેમજ આ સિવાયના સંસ્થા જણાવે તે બાગોની નિયમીત સફાઈ કરવાની રહેશે અને તે સફાઈ અંગેના રજીસ્ટર નિભાવવાના રહેશે.
૨. સ્વીપર તથા સુપરવાઈઝર સારી ચાલકલગતવાળા પુરા પાડવાના રહેશે તેમજ તેઓના નામ, કામથી સરનામા, ફોટા, ઓળખપત્રો રેકર્ડ ઓન્ડાક્ટરે મેઈન્ટેઈન કરવાનો રહેશે. તેમજ સંસ્થા જ્યારે રેકર્ડ માંગે ત્યારે સુપ્રત કરવાનો રહેશે.



INFINITY SERVICES  
PROPRIETOR

Page 1 of 6

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**Registrar**  
Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
**Rajkot**





**ATMIYA UNIVERSITY**

(Established under the Gujarat Private University Act II, 2015)

Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

૩. સામન્સ બિલ્ડીંગના સંકુલમાં પાન, તમાકુ, ગુટકા કે અન્ય કોઈપણ માદક દ્રવ્યોનું સેવન પ્રતિબંધીત છે આ નિયમનો ભંગ થયેથી જે તે વ્યક્તિ અને કોન્ટ્રાક્ટર સામે નિયમાનુસાર કાર્યવાહી કરી કોન્ટ્રાક્ટ રદ કરવા સુધીનાં પગલાં લેવામાં આવશે અને ડીપોઝીટની રકમ જપ્ત થશે.
૪. કોન્ટ્રાક્ટરશ્રી તેમજ તેમના દ્વારા કામ પર રાખવામાં આવેલ કોઈપણ વ્યક્તિ બહારથી કોઈપણ ખાસ પદાર્થ મંગાવી શકશે નહીં.
૫. કોન્ટ્રાક્ટરના સુપરવાઈઝરે સંસ્થાના પ્રતિનિધિના સહયોગમાં રહીને તમામ કર્મચારીની હાજરી નિયત પ્રકોર્મમાં લખાવી સહી કરવાની રહેશે.
૬. સ્વીપર તથા સુપરવાઈઝર નિયત ટ્રેસ કોર્સમાં જ ફરજ બજાવવાની રહેશે.
૭. કોન્ટ્રાક્ટર દ્વારા રાખવામાં આવેલ કોઈપણ કર્મચારીએ વિદ્યાર્થી તથા સંસ્થાના કોઈપણ વ્યક્તિસાથે અંગત વ્યવહારો રાખવા નહિ. આવા વ્યવહારો રાખવાને કારણે ઉપસ્થિત થતા પ્રશ્નોની જવાબદારી જે તે વ્યક્તિની પોતાની તથા કોન્ટ્રાક્ટરની રહેશે.
૮. સાફસુકી દરમ્યાન મળી આવેલ વસ્તુ અથવા રોકડ રકમ સંસ્થાના અધિકૃત કરેલ વ્યક્તિને સુપ્ત કરી આપવાની રહેશે.
૯. ફરજ બજાવવા કોઈપણ કર્મચારી સંસ્થાની માલ-મિલકતને નુકશાન કરે નહીં તેની જવાબદારી કોન્ટ્રાક્ટરની રહેશે.
૧૦. કેમ્પસની મુલાકાતે આવતા વ્યક્તિઓ સાથે વિવેક પૂર્ણ વ્યવહાર જાળવવાનો રહેશે.
૧૧. સ્વીપરને કોઈપણ પ્રકારની મુશ્કેલી માટે, સંસ્થાને સીધી રજુઆત ન કરતાં, કોન્ટ્રાક્ટરના સુપરવાઈઝર મારફતે સંસ્થાના અધિકૃત વ્યક્તિ સાથે સંકલન સાધી, જરૂરીયાત જણાય તો જ જાણ કરવી.
૧૨. સંસ્થાને નિમેલા વ્યક્તિઓની સુચનાઓનું પાલન કરવાનું રહેશે.



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૧૩. કોન્ટ્રાક્ટરે નિયત થયેલ ભાવે સંસ્થા જણાવે તે સંખ્યામાં સ્વીપીંગ સ્ટાફ પુરો પાડવાનો રહેશે. ફરજ બજાવતા કર્મચારીઓની સંખ્યા ૧૦% કરતા ઓછી જણાશે તો ગૌરહાજર સ્ટાફની રકમ માસિક બ્રીલમાંથી વસુલ કરવામાં આવશે જેની પાસ નોંધ હેવી. તેમજ નિયત કરતા વધારે હશે તો કોઈપણ પ્રકારનું અલગથી વેતન આપવામાં આવશે નહીં.
૧૪. કોન્ટ્રાક્ટરે ફરજ પર મુકેલ સ્ટાફ માટે તેઓના કામકાજના સમયગાળા દરમ્યાન સમય-પાલન જાળવી રાખે તે અંગેનો ખાસ ખ્યાલ રાખવાનો રહેશે.
૧૫. હાઉસ-કીપીંગ માટેનો કોન્ટ્રાક્ટ પ્રથમ તબક્કે ૧૨ માસના ગાળાનો રહેશે અને ત્યારબાદ કામગીરીની સમીક્ષા થયે આખરી નિર્ણય લેવામાં આવશે. આમ છતાં બીજા સુચના ન મળે ત્યા સુધી કોન્ટ્રાક્ટ ચાલુ રહેશે.
૧૬. ૧૮ વર્ષથી નીચેની ઉંમરનીબ્યક્તિને કામ પર રાખી શકાશે નહિ.
૧૭. કોન્ટ્રાક્ટર દ્વારા રોકવામાં આવતાં સ્ટાફનું પોલીસ ક્લબીયરન્સ સાર્ટીફિકેટ મેળવી લેવાનું રહેશે. તેમજ સંસ્થા જ્યારે રેકર્ડ માંજે ત્યારે સુપ્રત કરવાનો રહેશે.
૧૮. કોન્ટ્રાક્ટર દ્વારા હાઉસ-કીપીંગ માટે રોકવામાં આવતાં સ્ટાફનો ઈન્સ્યોરન્સ લેવાનો રહેશે તેમજ સંસ્થા જ્યારે રેકર્ડ માંજે ત્યારે સુપ્રત કરવાનો રહેશે.
૧૯. સંસ્થાને તરફથી કોન્ટ્રાક્ટ રદ કરવા માટે ૩૦ દિવસ અગાઉ લેખીતમાં નોટીસ અપાશે તેમજ એજન્સી કોન્ટ્રાક્ટ રદ કરવા માગતી હોય તો ૩૦ દિવસ પહેલા સંસ્થાને લેખીતમાં જાણ કરવાની રહેશે. અન્યથા શરતભંગ પેટે બાકી ચુકવવાની થતી તમામ રકમ ડીપોઝીટ સાથે જપ્ત કરવામાં આવશે. જ્યારે સંસ્થા તરફથી કોન્ટ્રાક્ટ રદ થયા પેટે કોઈપણ પ્રકારના વળતરની માગણી કોન્ટ્રાક્ટર દ્વારા કરી શકાશે નહીં.
૨૦. લઘુત્તમ વેતન અધિનિયમઅન્વયે કોન્ટ્રાક્ટ પર રખાતા કામદારને વેતન ભથ્થા અંગે વખતો-વખત લાગુ પડતી જોગવાઈઓને અમલ કરવાની જવાબદારી કોન્ટ્રાક્ટરશ્રીની રહેશે તથા દરેક મજુર કાયદાઓનું પાલન કરવાનું રહેશે. તેમજ પ્રોવિડન્ટ ફંડ, એચ્યુઈટી વગેરે જાબતોની સવળી કાયદાકીય જવાબદારી કોન્ટ્રાક્ટરશ્રીની રહેશે.



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૨૧. એજન્સીને કોન્ટ્રાક્ટ દરમ્યાન કોઈપણ વ્યક્તિ સાથે વ્યક્તિગત વાંધા કે તકરાર થાય તો તે અંગેની કોઈપણ જવાબદારી સંસ્થાની રહેશે નહિ, અને તેની સઘળી કાયદાકીય જવાબદારી કોન્ટ્રાક્ટરની રહેશે.
૨૨. કોઈપણ વિવાદ અંગેનું ન્યાય ક્ષેત્ર રાજકોટ રહેશે.

**કરારની નાણાકીય જોગવાઈ:-**

૧. એજન્સીને આપવામાં આવનાર રકમમાંથી નિયત ટેક્સ તથા આવકવેરો વગેરેની વસુલાત મુકવણી વખતે જ કરી લેવામાં આવશે.
૨. સંસ્થાને કોઈપણ જાતનું નુકશાન થયે, સંસ્થા નક્કી કરે તે રકમની વસુલાત કોન્ટ્રાક્ટરને દર માસે મુકવવાની થતી ફીમાંથી વસુલ કરવામાં આવશે.
૩. બીલ દર માસની ૫ તારીખ સુધીમાં નિયત પ્રકોર્મ સાથે સંસ્થાએ અધિકૃત કરેલ વ્યક્તિને ચેક કરાવવા માટે રજુ કરવાનું રહેશે.
૪. તમામ રજીસ્ટ્રેશન જેમ કે પાન નં., જી.એસ.ટી.નં., પી.એફ.કોડ નં., ઈએસઆઈ નં., તથા બલ્યુ.સી.પોલીસી નં. વિગેરે રજીસ્ટ્રેશનની પ્રમાણિત નકલ રજુ કરવાની રહેશે.
૫. ગુજરાત સરકાર, કેન્દ્ર સરકાર કે મ્યુનિસિપલ કોર્પોરેશન દ્વારા લાગુ પડતા વખતોવખતના તમામ પકારના ટેક્સ (શિવાય કે જી.એસ.ટી. ટેક્સ) તેમજ લેબર-લોજ મુજબની નિયત રકમ ભરપાઈ કરવાની જવાબદારી કોન્ટ્રાક્ટરશ્રીની રહેશે. સંસ્થા તરફથી બીલની રકમ ઉપરાંત નિયત જી.એસ.ટી. મુકવવામાં આવશે.
૬. દરેક બીલમાંથી લાગુ પડતા પ્રોવિડન્ડ ફંડ તથા જી.એસ.ટી. ભરપાઈ કર્યા અંગેના ચલણો રજુ કરવાના રહેશે. તેમજ સંસ્થા જ્યારે રેકર્ડ માંગે ત્યારે સુપ્ત કરવાનો રહેશે.
૭. માસ દરમ્યાન કોઈપણ જાતનું પાર્ટ-પેમેન્ટ કરવામાં આવશે નહિ.  
માલસામાનનો ખોટો બચાડ થયે માર્કેટ રેઈટ મુજબની રકમ બીલમાંથી વસુલાત કરવામાં આવશે.



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૯. તમામ શરતો મુજબની કપાત કર્યા બાદ દર માસની એકંદર ૧૦ તારીખ સુધીમાં કરવામાં આવશે. આમ છતાં સંજોગોવસાત વિલંબ પણ થઈ શકે છે.

### ❖ સફાઈ કામ માટેના સ્ટાફના શિસ્તવિષયકનિયમો:-

૧. ચાલુ ફરજ દરમ્યાન મોબાઈલ ફોનનો ઉપયોગ કરનાર કર્મચારીનો મોબાઈલ ફોન જપ્ત કરી રૂ.૧૦૦/- પેનલ્ટી ચાર્જ કરવામાં આવશે.
૨. બી.બી, સીગારેટ, તમાકું, ગુટકાનું સેવન કર્યાનું માલુમ પડ્યાથી રૂ.૫૦૦/- પ્રતિ વ્યક્તિના પેનલ્ટી ચાર્જ કરવામાં આવશે.
૩. એજન્સીનો સ્ટાફ કોઈપણ જગ્યાએ યુક્તા અથવા તો પાન/ગુટકાની પીચકારી મારતા જણાયે રૂ.૧૦૦૦/- પ્રતિ વખતની પેનલ્ટી ચાર્જ કરવામાં આવશે.
૪. આ કેમ્પસ ખાતે અગાઉ ફરજ બજાવી ગયેલ અન્ય એજન્સીના કે સંસ્થાના સ્ટાફમાંથી છુટા કરવામાં આવેલ કોઈ વ્યક્તિને સંસ્થાની મંજૂરી વગર ફરજ પર રાખી શકાશે નહિ.
૫. ચાલુ ફરજ દરમ્યાન માલુમ પડ્યાથી સેવન કર્યાનું માલુમ પડ્યાથી રૂ.૧૦,૦૦૦/- પ્રતિ વ્યક્તિના પ્રતિ દિવસ પેનલ્ટી ચાર્જ કરવામાં આવશે. ઉપરાંત આવા શખ્સની સામે ક્રાયડેસ્ટરની કાર્યવાહી એજન્સીના ખર્ચે ને જોખમે કરવામાં આવશે. તેમજ સંસ્થા દ્વારાકોન્ટ્રાક્ટ રદ કરવા સુધીના પગલા લઈ શકાશે.
૬. એજન્સીના સ્ટાફ દ્વારા સંસ્થાની કોઈપણ માલ મિલકતને નુકશાન પહોંચાડ્યાનું માલુમ પડ્યે, નુકશાનની રકમ બીલમાંથી વસૂલ કરવામાં આવશે.

ઉપરોક્ત નિયમોનું ઉલ્લંઘન કરતાં માલુમ પડશે અથવા તો અનૈતિક પવૃત્તિ કરતાં શખ્સોને સંસ્થા કામમાં ધોરણે કેમ્પસમાંથી દુર કરવામાં આવશે.

ઉપરોક્ત પેનલ્ટી કલોઝઅન્વયે દંડની રકમની વિગત મેં વાંચી, સમજી છે અને તે મને મંજૂર છે તેમજ આ સાથે કોન્ટ્રાક્ટ સાથે મુકેલ ડીપોઝીટ પેટેની રકમ રૂ.૭૫,૦૦૦/- (રૂ.અંકે રૂપિયા પંચોતેર હજાર પુરા) ચેકથી જમા કરાવું છું. જેના ઉપર કોઈ વ્યાજ મળશે નહિ. તેમાંથી સંસ્થા પેનલ્ટી કલોઝઅન્વયે મજરે લઈ શકશે તેવી આથી બાંહેધરી લખી આપું છું.



INFINITY SERVICES

PROPRIETOR

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**ATMIYA  
UNIVERSITY**

NAAC – Cycle – 1  
AISHE: U-0967

Criterion 7

I V & B P

KI 7.1

M 7.1.3



**ATMIYA UNIVERSITY**


(Established under the Gujarat Private University Act 11, 2018)


Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

હાઉસ-કીર્પીંગ વર્ક કામ માટેના કરાર મુજબ નક્કી થયેલ ભાવ

અનુ. નં.	કામની વિગત	રકમ
૧	હાઉસ-કીર્પીંગ વર્ક અંતર્ગત અલગ-અલગ જગ્યાએ સફાઈ તથા સ્વચ્છતા જાળવવાના કામ બાબત અંગે એક માસના પ્રતિ વ્યક્તિ દિઠના ભાવ	૧૫,૦૦૦/- + GST અંકે ટૂપીયા પંદર હજાર પુરા

ઉપરોક્ત કરારની તમામ શરતો મેં વાંચી, સમજી છે અને તે મને મંજૂર છે તેમજ પેનલ્ટી કલેઝના પત્રકમાં દર્શાવેલ જુદા જુદા મિયમોના ઉલ્લંઘનપેટે ભરપાઈ કરવાની થતી દંડની રકમ પણ મને માન્ય છે. આ ઉપરાંત શિસ્તવિષયક તમામ નિયમોનું પાલન કરવા આથી હું બાહેધરી આપું છું આમ કરવામાં નિષ્ફળ અથવા સંસ્થા મારો કોન્ટ્રાક્ટ ડીપોઝીટ જપ્ત કરી રદ કરી શકશે. જે મને માન્ય છે. મારા ભાવો ઉપર મુજબ હોય, તે ભાવે કામ કરવા આથી હું મારી સહમતી આપું છું.

  
રજીસ્ટ્રાર  
આત્મીય યુનિવર્સિટી  
રાજકોટ

કોન્ટ્રાક્ટરની સહી :-   
નામ :- BHAGATA PARTH P.  
હોદ્દો :- PROPRIETOR  
તારીખ :- 14/05/2024  
સ્થળ :-



INFINITY SERVICES  
  
PROPRIETOR

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**Registrar**  
Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
Rajkot



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IN-GJ90124516419276W

**INDIA NON JUDICIAL  
Government of Gujarat  
Certificate of Stamp Duty**



सत्यमेव जयते

<b>Certificate No.</b>	IN-GJ90124516419276W
<b>Certificate Issued Date</b>	21-May-2024 04:42 PM
<b>Account Reference</b>	IMPACC (AC)/ gj13252511/ NANPURA/ GJ-SU
<b>Unique Doc. Reference</b>	SUBIN-GJGJ1325251100057863999788W
<b>Purchased by</b>	UTAM SATAPARA
<b>Description of Document</b>	Article 5(h) Agreement (not otherwise provided for)
<b>Description</b>	Not Applicable
<b>Consideration Price (Rs.)</b>	0 (Zero)
<b>First Party</b>	INFINITY SERVICES
<b>Second Party</b>	ATMIYA UNIVERSITY
<b>Stamp Duty Paid By</b>	INFINITY SERVICES
<b>Stamp Duty Amount(Rs.)</b>	300 (Three Hundred only)




**HEF 0001506182**

Statutory Alert  
1. The authenticity of the stamp certificate should be verified at www.gjstamp.com or calling 0-79-2555-7888 (toll free) of Stock Holding.  
2. Any discrepancy in the details on this Certificate should be available on the website: www.gjstamp.com.  
3. The status of releasing the responsibility is on the user of the certificate.  
4. In case of any discrepancy, please inform the Competent Authority.






બાબત :- આપના તરફથી આપવામાં આવેલ હાઉસ-કીપીંગ વર્ક અંતર્ગત અલગ અલગ જગ્યાએ સફાઈની સ્વછતા જાળવવા અંગે.

આપના તરફથી અમોને આપવામાં આવેલ હાઉસકીપીંગની સેવા પુરી પાડવા અંગેના વર્ક ઓર્ડર અનુસાર તા. 01-06-2024 થી તા. 31-05-2025 ની મુદત માટે કામગીરી આપેલી છે. તે સંદર્ભમાં અમો નીચે પ્રમાણે બાહેધરી આપીએ છીએ.

1. આપના વર્ક ઓર્ડર નં. AU/HouseKeeping/WO/30-2024-25 તા. 14-05-2024 માં દર્શાવેલી શરતો અનુસાર અમોએ હાઉસકીપીંગ કામગીરી કરી આપવાની રહેશે.
2. આ કામગીરી માટે રોકવામાં આવેલાને આમોએ કર્મચારીઓ હંગામી ધોરણે રાખેલા છે તથા આ કર્મચારીઓ દરરોજ બદલાતા રહે છે. આથી મજૂર કાયદા અંગેની જોગવાઈઓ તેમને લાગુ પડતી નથી. તેમ છતાં ભવિષ્યમાં આવી કોઈ જવાબદારી જેવી કે પ્રોવિડંડ ફંડ-ગ્રેચ્યુટી-જીવન વીમો કે અક્સ્માત વીમા અંગેનું વળતર ચુકવવા જેવી બાબતો ઉભી થશે તો તે અંગેની સંપૂર્ણ જવાબદારી અમારી રહેશે. તેની આ સાથે ખાતરી આપવામાં આવે છે. અમો આ માટે કેન્દ્ર સરકાર, રાજ્ય સરકાર તેમજ સ્થાનિક સ્વરાજ્યની સંસ્થા દ્વારા હાલમાં પ્રવર્તમાન તેમજ ભવિષ્યમાં લાગુ પડનારા તમામ નિતી-નિયમોનું સંપૂર્ણપણે પાલન કરીશું જેની આથી બાહેધરી આપીએ છીએ.
3. તમામ વાદ-વિવાદ અને કાયદાકીય પરિસ્થિતિઓનું ન્યાય ક્ષેત્ર રાજકોટ (ગુજરાત) રહેશે.

ઉપરોક્ત તમામ ખાતરી અમોએ સંપૂર્ણ પણે, સભાન પણે તેમજ કોઈ ધાક-ધમકી અને પ્રલોભન-લાલચ સિવાય રાજીખુશીથી આપેલ છે અને આ ખાતરીનું પાલન કરવા અમો સંપૂર્ણ પણે પ્રતિબદ્ધતા જાહેર કરીએ છીએ.

INFINITY SERVICES

  
PROPRIETOR

કોન્ટ્રાક્ટરની સહી તથા સિક્કો







Attested By

*[Signature]*  
NICAL S. SOLANKI  
NOTARY (GOVT. OF INDIA)  
RAJKOT - GUJARAT

Page No. .... 173

Serial No. .... 4665

Receipt No. .... 4665

Date .... 21-5-24



*[Signature]*





Third Floor, 301, Avani Palace, Behind Gol Heights Street,  
Opp. Govani Chhatralaya, Rajkot - 360005  
☎ 91 91578 77200 ✉ theinfinityservices9@gmail.com

Ref : IS/AU/2024-25/01

Date : 10/05/2024

પ્રતિ,  
માનનીય સાહેબશ્રી,  
HR ડિપાર્ટમેન્ટ,  
આત્મીય યુનિવર્સિટી, રાજકોટ.

**વિષય :** ઠાઉસ કીપિંગના કોન્ટ્રાક્ટના માસિક ભાવ કોટેશન બાબત..

ઉપરોક્ત વિષય પરત્વે જણાવીએ છીએ કે આપની સંસ્થામાં સાફ-સફાઈ તેમજ સુપરવાઈઝરનું માસિક ભાવ નીચે મુજબ છે.

ક્રમ	વિગત	કુલ માસિક રૂ.
૧	એક કામદારનું માસિક વેતન (પી.એફ.,ઈ.એસ.આઈ.સી.,બોનસ વગેરે સહીત)	૧૫,૦૦૦/-
૨	જવાબદાર સુપરવાઈઝરનું માસિક વેતન(પી.એફ.,ઈ.એસ.આઈ.સી.,બોનસ વગેરે સહીત)	૧૫,૦૦૦/-

આપની સંસ્થામાં અમોને જણાવેલ સાફ સફાઈ કરવાના વિસ્તાર મુજબ કુલ ૮ સફાઈ કામદાર અને ૧ જવાબદાર સુપરવાઈઝરની જરૂરિયાત જણાય છે.આમ કુલ મળી ૯ કર્મચારીઓનો સમાવેશ થાય છે.

કુલ ૯ કર્મચારીનું માસિક વેતન  $૧૫૦૦૦ \times ૯ = ૧,૩૫,૦૦૦/-$  (GST રહિત) થાય તેમ છે.

**એજન્સી દ્વારા ધ્યાને લેવામાં આવતા મુદ્દા :**

- દરેક કામદારોનું પ્રોપર સુપરવિઝન કરી ઉત્તમથી સર્વોત્તમ કામગીરી કરવામાં આવશે.
- દરેક કામદારોને સમયસર પગાર ચુકવવામાં આવશે.
- દરેક કામદારોને એજન્સી નો ડેશ ડોડ આપવામાં આવશે.
- યુનિવર્સિટીની સાફ સફાઈ બાબતની અપેક્ષાથી પણ સારું કામ કરવાના પ્રયત્નો કરવામાં આવશે.
- સમયાંતરે દરેક કામદારોને કામગીરી બાબતે યોગ્ય માર્ગદર્શન તેમજ સારી કામગીરી કરનાર કામદારને એજન્સી દ્વારા પ્રોત્સાહિત કરી તેમનો ઉત્સાહ વધારવાના પ્રયત્નો કરવામાં આવશે.

અમોના આ ભાવ કોટેશનને ધ્યાને લઈ આપશ્રી યોગ્ય કરશો એવી નમ્ર વિનંતી કરીએ છીએ.

INFINITY SERVICES  
*Shubham*  
PROPRIETOR

Approved Govt. Housekeeping, Security Service, Cleaning, Labour & Outsourcing of Manpower Supply Contractor

*[Signature]*



**Government of India  
Form GST REG-06  
(See Rule 10(1))**

**Registration Certificate**

Registration Number : 24C1EPB8409A1ZW

1. Legal Name	BHALARA PARTH PARESHKUMAR		
2. Trade Name, if any	INFINITY SERVICES		
3. Additional trade names, if any			
4. Constitution of Business	Proprietorship		
5. Address of Principal Place of Business	THIRD FLOOR, 301, AVANI PALACE, BEHIND GOL HEIGHTS STREET, OPPG. GOVANI CHHATRALAYA, Rajkot, Rajkot, Gujarat, 360005		
6. Date of Liability			
7. Period of Validity	From	23/05/2023	To Not Applicable
8. Type of Registration	Regular		
9. Particulars of Approving	Centre		
Signature	Signature valid Digitally signed by: GOODS AND SERVICES TAX, RAJKOT Date: 2023.05.23 11:50:47 IST		
Name	Mehtab M Khan		
Designation	Superintendent		
Jurisdictional Office	Ghatok 93 (Rajkot)		
Date of issue of Certificate	23/05/2023		
Note: The registration certificate is required to be prominently displayed at all places of business in the State.			

This is a system generated digitally signed Registration Certificate issued based on the approval of application granted on 23/05/2023 by the jurisdictional authority.

**INFINITY SERVICES**  
*Mehtab M Khan*  
**PROPRIETOR**

*[Handwritten Signature]*





Annexure A



Goods and Services Tax Identification Number: 24CIEPB8409A1ZW

Details of Additional Place of Business(s)

Legal Name BHALARA PARTH PARESHKUMAR

Trade Name, if any INFINITY SERVICES

Total Number of Additional Places of Business in the State 0

INFINITY SERVICES  
*[Signature]*  
PROPRIETOR

Goods and Services Tax

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University**

**Rajkot**





Annexure B



Goods and Services Tax Identification Number: 24CIEPB8409A1ZW

Legal Name: BHALARA PARTH PARESHKUMAR

Trade Name, if any: INFINITY SERVICES

Details of Proprietor

1



Name:	BHALARA PARTH PARESHKUMAR
Designation/Status:	Owner
Resident of State:	Gujarat

INFINITY SERVICES  
  
 PROPRIETOR

Goods and Services Tax

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**EMPLOYEES' PROVIDENT FUND**

(A statutory Body under the Ministry of Labour and Employment,  
www.epfindia.gov.in)

**PROVIDENT FUND CODE NUMBER INTIMATION**

No : 10001324869RAJ

Date : 15/09/2023

To

**PARTH FARESHKUMAR BHALARA**  
Proprietor  
INFINITY SERVICES  
301 Avani Palace 3rd Floor B/h Gal Heights Street, Opp. Govani  
Chhatralaya Rajkot RAJKOT  
GUJARAT - 360005

Sub: Allotment of Code Number to establishment M/s INFINITY SERVICES under Employees' Provident Fund and Miscellaneous Provisions Act, 1952-regarding.

Sir/Madam,

Based on the information submitted online by you, your establishment is registered with Employees' Provident Fund Organisation with the following code number :

**Code Number : GJRAJ3071093000**

This code number is allotted based on the following declarations by you:

1. Name of Establishment : INFINITY SERVICES
2. PAN of Establishment : CIEPB8409A
3. Date on which employment strength crossed 19 : 13/09/2023
4. Section under which : 000001(4)
5. Primary Activity : EXPERT SERVICES
6. Ownership Type : Proprietorship Firm
7. The address proof of the establishment is :

**INFINITY SERVICES**  
*Parth Bhalara*  
**PROPRIETOR**

Application Number : 10001324669

Page 1 of 2

Code Number : GJRAJ3071093000





8. The proof of date of set up 23/05/2023 is Others:

9. As at the time of application, your establishment is having the following licenses and registrations:

S.No.	License Under	License Number	Date	Issued By	Place of Issue
13333 91	GOODS AND SERVICE TAX IDENTIFICATION NUMBER	24CIEPB5409A1ZW	23/05/2023	Government Of India	Rajkot

10. As on date of your application, your establishment is not registered with ESIC.

11. As on date of your application, your establishment is not having LIN.

**SUB REGIONAL OFFICE**

**RAJKOT**

301 Avani Palace 3rd Floor B/h Gol Heights Street, Opp. Govani 360005

theinfinityservices9@gmail.com

Please note that this intimation letter is generated with the Owners' Details in Form 5A and the intimated letter will be valid only if the Form 5A is enclosed.

**Important information:**

1. By virtue of this registration, you are required to comply with the provision of the EPF & MP Act 1952. The obligations/duties/responsibilities cast upon you as an employer of this establishment and penalties, on account of non-compliance with the same, are explained on our website [www.epfindia.gov.in](http://www.epfindia.gov.in). You are required to go through them carefully.

2. Remittance of dues under the provisions of the Act is to be made only through a Challan generated through the Unified portal. (The process for registration on the portal, preparation of the ECR txt file and related information is available on the website and the portal).

3. In case this letter is produced as a proof of the code number of the establishment, before any person including any Inspector from EPFO, the Form 5A generated through the portal at the time of registration should be a part of this letter. The remittance details of the establishment will be available on the EPFO website through the link "Establishment Search" where all payments from December 2016 onwards with the names of employees are available.

4. Please quote the Code Number GJRAJ3071093000 for all the future correspondence with EPFO.

This is a system generated letter and needs no signature.

Employees' Provident Fund Organisation

Dated: 13/09/2023

INFINITY SERVICES  
*[Signature]*  
PROPRIETOR

Application Number: 10901324889

Page 2 of 2

Code Number: GJRAJ3071093000

*[Signature]*

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**Regional Office**  
EMPLOYEES' STATE INSURANCE CORPORATION  
ESI Corporation, Ashram Road, Ahmedabad-380014. Telephone  
NO. 079-3240050/08 Fax No.079-27540488

C-11 Regd. with a.d.

To  
M/s. INFINITY SERVICES  
301 Avani Palace 3rd Floor  
B/h Gal Heights Street, Opp. Gowani  
Chhatralaya Rajkot, 360005

Dated: 13/9/2023

**Subject:- Implementation of the E.S.I. Act, 1948 and Registration of Employees of  
the Factories and Establishments under Section 1(5) of the Act, as  
amended.**

Dear Sir(s),

1. It is informed that under section 1(3) of the es. act, 1948 is applicable to all factories/establishments covered under the act within the area where your factory/establishment is situated.
2. It is further informed that the appropriate government has extended the provisions of the act to other establishments under section 1(5) of the act in this area.
3. Under section 2 a of the act such a factory/establishment is required to register itself under the act and chapter iv thereof casts a responsibility on the principal employer thereof to get his employees registered and pay contributions in respect of these employees covered under the act.
4. On the basis of the particulars in respect of your factory/establishment, submitted by you, the report of the inspection conducted by the Social Security Officer, who inspected your establishment on -NA-, your establishment falls within the purview of Section 1(5) of the Act with effect from 12.09.2023. In case, however, subsequent facts reveal that your establishment was coverable from a date prior to the date mentioned above, you shall make yourself liable to comply with the provisions of the Act from such earlier date.
5. It is requested to take immediate steps for registration of your employees by submitting declaration forms online, payment of contribution, maintenance of records etc. from the date of coverage of your factory/establishment under the act. You are also requested to submit employee's registration form (form III) as required under the provisions of sec.2-a of the es. act, 1948 read with regulation 10-b of the es.(general), regulations, 1950.
6. For the sake of convenience your establishment has been allotted code No. **37001531080001099** which may kindly be used in all communications sent to this office and on all forms at the place indicated for the purpose. The Branch Office of the Corporation situated at **D-1 Dispensary Compound, Opp. Ambika School, 80 Feet Road, Near Natashwar Mahadev Temple, Rajkot - 360002** has been instructed to render necessary assistance to you in connection with registration of your employees. In case you find any difficulty or for any other purpose which may be necessary in connection with the Scheme you are requested to contact the Manager of the above Branch Office who will render necessary help in the matter.
7. A State wise list of ESI Dispensaries is available on our website [www.esi.nic.in](http://www.esi.nic.in) under the link Dispensaries which can be downloaded. It is requested that publicity may be given about the Employees' State Insurance Dispensaries to enable your employees to choose their E.S.I Dispensaries.

**INFINITY SERVICES**  
*[Signature]*  
**PROPRIETOR**

*[Signature]*







8. The corporation officials would be pleased to give all necessary and possible guidance to you in discharging your duties and obligations under the act, 1948 and I am confident of prompt and timely compliance under the provisions of the ESIC act and regulations on your part.

9. All the Branches of State Bank of India are authorized to accept the ESIC Contribution .

10. The brochures/leaflets containing benefits available under the scheme and obligation of the employer etc are available on our website [www.esic.gov.in](http://www.esic.gov.in) under the link Publications which may be downloaded for wide publicity for the smooth functioning of the scheme.

11. Please indicate your code no. on all correspondences to avoid delay.

Yours faithfully,

Asst./Dy. Director

End: As state above

Copy for information and necessary action to:

Name of the principal employer : PARTH PARESHKUMAR BHAIKAR

No. of employees : 10

ENSURE - TO INSURE ALL ELIGIBLE WORKERS WITH ESIC FOR TOTAL SOCIAL SECURITY

INFINITY SERVICES  
REGISTRAR





INFINITY SERVICES  
*Shubham*  
PROPRIETOR

INFINITY SERVICES  
*Shubham*  
PROPRIETOR

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University  
Rajkot**





**RAJKOT MUNICIPAL CORPORATION  
PROFESSION TAX DEPARTMENT  
CERTIFICATE OF REGISTRATION**

UNDER SUB-SECTION (1) and (ii) OF SECTION 5 OF THE GUJARAT STATE TAX ON PROFESSIONS, TRADES, CALLINGS AND EMPLOYMENT ACT, 1976

This is to certify that BHALARA PARTH PARESHBHAI engaged in the profession/trade/calling/employer known as INFINITY SERVICES own/ operates as manager/ proprietor/director/partner/trustee etc. and has been enrolled with Certificate No PEC04189858 and Registration Certificate No PRC04024595 under the Gujarat state tax on profession/trade/calling and employer act, 1976. Located at AVANI PALACE, T.F, 301 SHRINATHJI PARK, ST. NO. 1, M, SER. NO. 197 OPP. POLICE HEAD QWA MAVDI VISHAT engaged in business of : Labour Contractor/Map Power Supplier at Inception Date 01-04-2023.

The holder of this certificate shall pay the tax at the rate of Rs. 2000.00 per annum on or before the 30th September of every year, in the manner prescribed in rule 20 of the Gujarat

Return in prescribed form shall be furnished by the employer registered with Registration Certificate No PRC04024595 in respect of each Month/Quarter separately.

The tax shall be payable Monthly/Quarterly with the return and receipt of payment in token payment of tax shall be attached to the return.

Property No : <u>0696/0024/000</u>	
Profession Tax Enrollment Certificate No	<u>PEC04189858</u>
Profession Tax Registration Certificate No	<u>PRC04024595</u>

Place : Rajkot



Signature :

Date : 27-09-2023

Designation :

Assistant Manager

**INFINITY SERVICES**  
  
**PROPRIETOR**





Rajkot Municipal Corporation Gujarat Shops and Establishments(Regulation of Employment and Conditions of Services) Act, 2019 REGISTRATION CERTIFICATE (Form B)				
1	Registration Number	-	2023-2024/SR/006157	
2	Name of the Establishment	-	INFINITY SERVICES	
3	<p>This certificate is issued based on the application and the uploaded Self - Certified documents and declaration given by the applicant,without physical verification of the existence of establishment, the nature of business carried out and the details mentioned in the application.</p> <p>This is just a certificate of registration and does not give any right to property or possession of the rights of the premises or property.</p>			
4	Date of commencement of business	-	23/05/2023	
5	Period for which registration is obtained	-	From 23/09/2023	
6	Name of the Employer	-	BHALARA PARTI PARESHBhai	
7	a) Nature of Business	-	private - Labour Contractor/Man Power Supplier	
	b) Category	-	Establishments	
	c) Organization Type	-	Proprietor	
8	Postal Address of the Establishment	-	AVANI PALACE,TF-301SHRINATHJI PARK STUNG KIN SAR NO.107 OPP POLICE HEAD QWA MAVDI VISHAL	
9	Details of Manpower/Employees		Men	Women
	No. of Persons working in Managerial/Supervisory/confidential capacity	-		
	No. of workers other than above	-		
	No. of apprentices under the Apprentices Act, 1961 (52 of 1961)	-		
	No. of contract labour	-	1	
	No. of part time workers	-	10	
	Total	-	11	0

It is hereby certified that the above establishment has been registered under the Gujarat Shops and Establishments (Regulations of Employment and Conditions of Service) Act, 2019 (Guj. 4 of 2019) on this day of September, 2023 as shop/establishment.

Date: 27/09/2023

Place: Rajkot

  
 વાલે પાર્શ્વભાઈ ભાલારાજ  
 ભાલારાજ પાર્ટી પ્રોપ્રિયટર  
 અધિકારી નંબર: 107/111  
 Rajkot Municipal Corporation

Application Id. Number	Fees Paid (rupees)
150155	500.00

Print By: FBKALYANI

22/09/2023 12:02:25

INFINITY SERVICES  
  
 PROPRIETOR






**ATMIYA  
UNIVERSITY**

**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion 7**

**I V & B P**

**KI 7.1**

**M 7.1.3**

**Kotak Mahindra Bank**  
 2, Ankura, Spok Motew/Sondal Road, Rajkot,  
 Gujarat - 360007  
 Gujarat India  
 IFSC: KMD0002000

Valid for three months from date of issue  
 Month:  Year:

श्री याचक को Or Bearer

₹

3513513510

KOTAK Mahindra CURRENT ACCOUNT  
 Ltd.

For In'finity Services

Authorized Signatory

Payable Anywhere at all branch locations of Kotak Mahindra Bank Ltd.

INFINITY SERVICES  
*Shubh*  
 PROPRIETOR

⑈000002⑈ 3604850⑆00⑆580⑈ 29

*[Handwritten Signature]*

**Registrar**  
 Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
**Rajkot**





भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small and Medium Enterprises

**MSME**  
सूक्ष्म, लघु एवं मध्यम उद्यम  
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

Udyam Registration Number : LDYAM-GJ-20-0125168

Type of Enterprise	MICRO	Major Activity	Services
Type of Organisation	Proprietary	Name of Enterprise	INFINITY SERVICES
Owner Name	SHRI PARSHI PARESHKUMAR BHALARA	PAN	CIEPB8409A
Do you have GSTIN	Yes	Mobile No.	9157877200
Email Id	theinfinityservices9@gmail.com	Social Category	General
Gender	Male	Specially Abled(DIVYANG)	No
Date of Incorporation	22/05/2023	Date of Commencement of Production/Business	22/05/2023

**Bank Details**

Bank Name	IFS Code	Bank Account Number
KOTAK MAHINDRA BANK	KKBK0002800	3513513510

**Employment Details**

Male	Female	Other	Total
1	1	0	2

**Investment in Plant and Machinery OR Equipment (in Rs.)**

S.No.	Financial Year	Enterprise Type	Written Down Value (WDV)	Exclusion of cost of Pollution Control, Research & Development and Industrial Safety Devices	Net Investment in Plant and Machinery OR Equipment[(A)-(B)]	Total Turnover (A)	Export Turnover (B)	Net Turnover [(A)-(B)]	Is ITR Filled?	ITR Type
1	2021-22	Micro	0.00	0.00	0.00	0.00	0.00	0.00	No	NA

**Unit(s) Details**

SN	Unit Name	Flat	Building	Village/Town	Block	Road	City	Pin	State	District
1	INFINITY SERVICES	301	AVANI PALACE	RAJKOT	OPP GOVANI CHHATRALAYA	B/H GOL HEIGHT STREET	RAJKOT	360005	GUJARAT	RAJKOT

**Official address of Enterprise**

**INFINITY SERVICES**  
*(Signature)*  
**PROPRIETOR**

*(Signature)*





Flat/Door/Block No.	301	Name of Premises/ Building	AVANI PALACE
Village/Town	RAJKOT	Block	OPP. GOVANI CHHATRALAYA
Road/Street/Lane	BH GOL HEIGHT STREET	City	RAJKOT
State	GUJARAT	District	RAJKOT , Pin : 360005
Mobile	915787200	Email:	infinityservices@gmail.com
Latitude	22.294249574433264	Longitude:	70.76458658425793

**National Industry Classification Code(S)**

SNo.	Nic 2 Digit	Nic 4 Digit	Nic 5 Digit	Activity
1	55 - Accommodation	5510 - Short term accommodation activities	55102 - Provision of short term lodging facilities to members of a particular organisation such as govt. guest houses, company guest houses, client houses and similar establishments	Services
2	74 - Other professional, scientific and technical activities	7490 - Other professional, scientific and technical activities n.e.c.	74904 - Security consulting	Services
3	78 - Employment activities	7810 - Activities of employment placement agencies	78100 - Activities of employment placement agencies	Services
4	78 - Employment activities	7820 - Temporary employment agency activities	78200 - Temporary employment agency activities	Services
5	78 - Employment activities	7830 - Human resources provision and management of human resources functions	78300 - Human resources provision and management of human resources functions	Services
6	80 - Security and investigation activities	8010 - Private security activities	80100 - Private security activities	Services
7	80 - Security and investigation activities	8020 - Security systems service activities	80200 - Security systems service activities	Services
8	80 - Security and investigation activities	8030 - Investigation activities	80300 - Investigation activities	Services
9	81 - Services to buildings and landscape activities	8110 - Combined facilities support activities	81100 - Combined facilities support activities	Services
10	81 - Services to buildings and landscape activities	8121 - General cleaning of buildings	81210 - General cleaning of buildings	Services
11	81 - Services to buildings and landscape activities	8129 - Other building and industrial cleaning activities	81291 - Cleaning of trains buses, planes etc.	Services
12	81 - Services to buildings and landscape activities	8129 - Other building and industrial cleaning activities	81299 - Other building and industrial cleaning activities	Services
13	81 - Services to buildings and landscape activities	8130 - Landscape care and maintenance service activities	81300 - Landscape care and maintenance service activities	Services
14	82 - Office administrative, office support and other business support activities	8299 - Other business support service activities n.e.c.	82990 - Other business support service activities n.e.c.	Services
15	85 - Education	8550 - Educational support services	85500 - Educational support services	Services
16	86 - Human health activities	8610 - Hospital activities	86100 - Hospital activities	Services

INFINITY SERVICES

Proprietor

*[Signature]*





17	86 - Human health activities	8690 - Other human health activities	86904 - Activities of nurses, masseuses, physiotherapists or other para-medical practitioners	Services
18	96 - Other personal service activities	9906 - Other personal service activities n.e.c.	96093 - General household maintenance activities like grooming of the floor, dusting, cleaning of utensils etc.	Services

Are you interested to get registered on Government e-Market (GEM) Portal	Yes
Are you interested to get registered on TReDS Portals(one or more)	No
Are you interested to get registered on National Career Service(NCS) Portal	No
Are you interested to get registered on NSIC B2B Portal	Yes
Are you interested in availing Free .IN Domain and a business email ID	No
District Industries Centre	RAJKOT ( GUJARAT )
MSME-DFO	AHMEDABAD ( GUJARAT )
Date of Udyam Registration	23/05/2023
Date of Printing	16/04/2024

<b>IEC Details</b>	
IEC Number	
IEC Status	Inactive
IEC Registration Date	
IEC Modification Date	

**INFINITY SERVICES**  
  
**PROPRIETOR**







भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम प्रचालन  
Ministry of Micro, Small and Medium Enterprises

**MSME**  
सूक्ष्म, लघु एवं मध्यम उद्यम प्रचालन  
Ministry of Micro, Small and Medium Enterprises

### UDYAM REGISTRATION CERTIFICATE

**UDYAM REGISTRATION NUMBER** UDYAM-GJ-20-0125168

**NAME OF ENTERPRISE** INFINITY SERVICES

**TYPE OF ENTERPRISE**

S.No.	Classification Year	Enterprise Type	Classification Date
1	2023-24	Micro	23/05/2023

**MAJOR ACTIVITY**

**SERVICES**

**SOCIAL CATEGORY OF ENTREPRENEUR** GENERAL

**NAME OF UNIT(S)**

S.No.	Name of Unit(s)
1	INFINITY SERVICES

**OFFICIAL ADDRESS OF ENTERPRISE**

Flat/Door/Block No.	301	Name of Premises/ Building	AVANI PALACE
Village/Town	RAJKOT	Block	OPP. GOVANI CHHATRALAYA
Road/Street/Lane	B/H GOL HEIGHT STREET	City	RAJKOT
State	GUJARAT	District	RAJKOT - Pin. 360005
Mobile	915787200	Email:	theinfinityservices9@gmail.com

**DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE** 22/05/2023

**DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS** 22/05/2023

**NATIONAL INDUSTRY CLASSIFICATION CODE(S)**

S.No.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	55 - Accommodation	5510 - Short term accommodation activities	55102 - Provision of short term lodging facilities to members of a particular organization such as guest houses, company guest houses, circuit houses and similar establishments	Services
2	74 - Other professional, scientific and technical activities	7490 - Other professional, scientific and technical activities n.e.c.	74904 - Security consulting	Services
3	78 - Employment activities	7810 - Activities of employment placement agencies	78109 - Activities of employment placement agencies	Services

**INFINITY SERVICES**  
*(Signature)*  
**PROPRIETOR**

*(Signature)*





4	78 - Employment activities	7830 - Temporary employment agency activities	78200 - Temporary employment agency activities	Services
5	78 - Employment activities	7830 - Human resources provision and management of human resources functions	78300 - Human resources provision and management of human resources functions	Services
6	80 - Security and investigation activities	8010 - Private security activities	80100 - Private security activities	Services
7	80 - Security and investigation activities	8020 - Security systems service activities	80200 - Security systems service activities	Services
8	80 - Security and investigation activities	8030 - Investigation activities	80300 - Investigation activities	Services
9	81 - Services to buildings and landscape activities	8110 - Combined facilities support activities	81100 - Combined facilities support activities	Services
10	81 - Services to buildings and landscape activities	8121 - General cleaning of buildings	81210 - General cleaning of buildings	Services
11	81 - Services to buildings and landscape activities	8129 - Other building and industrial cleaning activities	81291 - Cleaning of trains, buses, planes etc.	Services
12	81 - Services to buildings and landscape activities	8129 - Other building and industrial cleaning activities	81299 - Other building and industrial cleaning activities	Services
13	81 - Services to buildings and landscape activities	8130 - Landscape care and maintenance service activities	81300 - Landscape care and maintenance service activities	Services
14	82 - Office administrative, other support and other business support activities	8299 - Other business support service activities n.e.c.	82990 - Other business support service activities n.e.c.	Services
15	85 - Education	8530 - Educational support services	85300 - Educational support services	Services
16	86 - Human health activities	8610 - Hospital activities	86100 - Hospital activities	Services
17	86 - Human health activities	8690 - Other human health activities	86904 - Activities of nurses, midwives, physiotherapists or other para-medical practitioners	Services
18	86 - Other personal service activities	9609 - Other personal service activities n.e.c.	96098 - General household maintenance activities like grooming of the floor, dusting, cleaning of utensils etc.	Services

DATE OF UDYAM REGISTRATION

23/05/2023

\* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 16.06.2020 issued by the Mo/MSME.

Disclaimer: This is computer generated statement, no signature required. Printed from <https://udyamregistration.gov.in> & Date of printing: 16/04/2024

For any assistance, you may contact:

1. District Industries Centre: RAJKOT (GUJARAT)

INFINITY SERVICES  
*Anubh*  
PROPRIETOR

Registrar  
Atmiya University, Rajkot-Gujarat-India  
Atmiya University  
Rajkot





2. MSME-DEO:

ATMIDABAD (GUJARAT)

Visit : [www.msme.gov.in](http://www.msme.gov.in) ; [www.dcmsme.gov.in](http://www.dcmsme.gov.in) ; [www.msme.gov.in](http://www.msme.gov.in)



Follow us @minmsme & @msme



INFINITY SERVICES  
*Anubha*  
PROPRIETOR

**Registrar**

Atmiya University, Rajkot-Gujarat-India

**Atmiya University**

**Rajkot**





**ATMIYA UNIVERSITY**

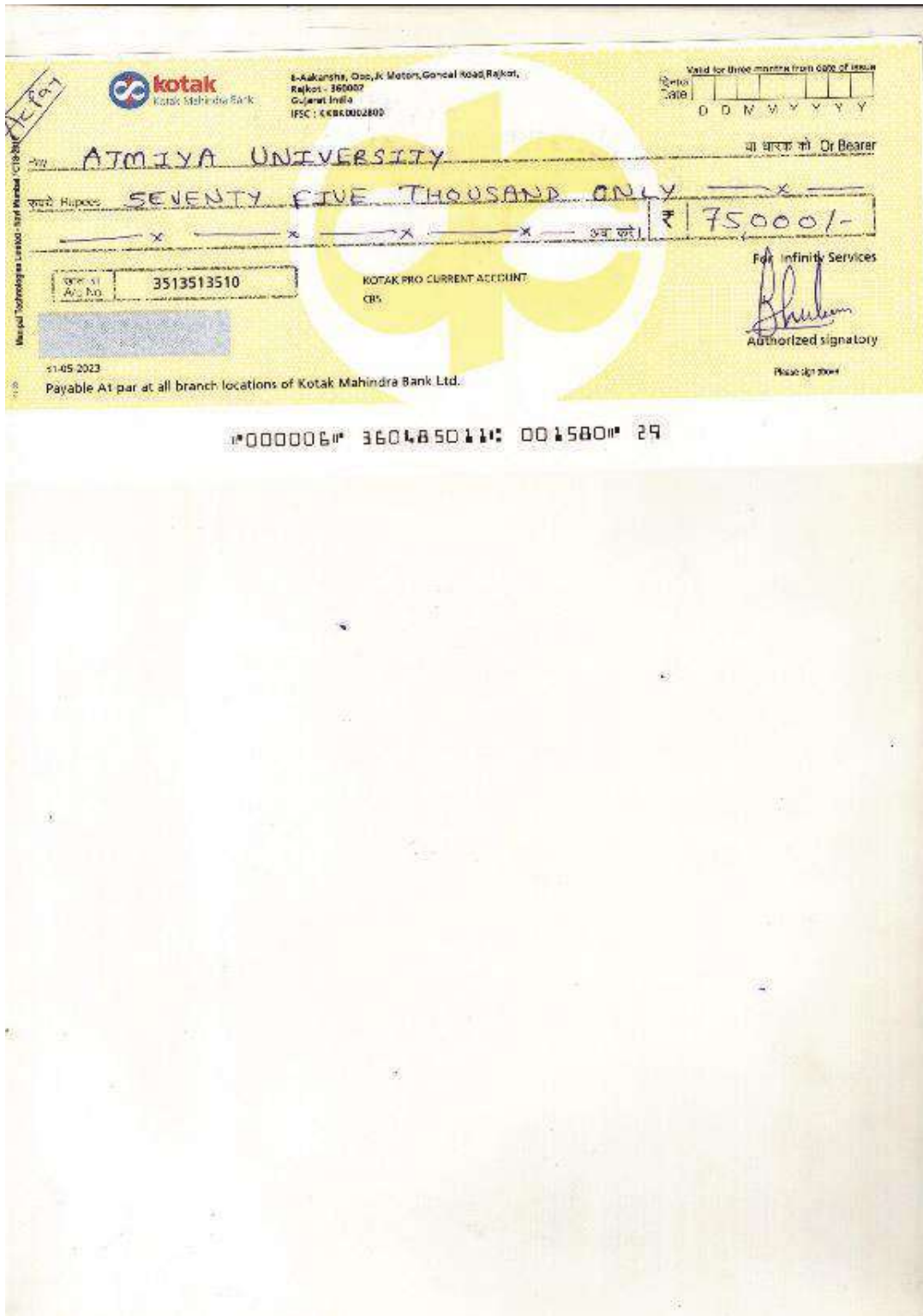
NAAC – Cycle – 1  
AISHE: U-0967

Criterion 7

I V & B P

KI 7.1








M 7.1.3



**Registrar**  
Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
**Rajkot**





 <p>भारत सरकार Government of India</p> <p>भारतीय विशिष्ट ओळखाङ्क प्राधिकरण Unique Identification Authority of India</p> <p>संलग्नक क्र. संख्या/ Enrolment No.: 0000/00575/88862</p> <p>TO Bhakra Parbhi Parshuram C/O Bhakra Parshuram even place flat no 301 opp. golden chandraya rajkot Rajkot Gujarat - 360005 9157877096</p>  <p>તમારો આધાર નંબર / Your Aadhaar No. : <b>9511 5334 9232</b> VID : 9110 0444 9019 3967</p> <p>મારો આધાર, મારી ઓળખ</p>	  <p>સંદેશ</p> <ul style="list-style-type: none"> <li>આધાર બોલાવવાનું પ્રમાણ છે. નાગરિકતાનું નહીં.</li> <li>ઓળખ થાકવા માટે સુરક્ષિત QR કોડ / ઓફલાઇન XML / ઓનલાઇન પ્રમાણિકરણનો ઉપયોગ કરવો.</li> <li>આ ઇલેક્ટ્રોનિક પ્રમાણ છે. કાલે પત્રવહીત કરવાતો નથી.</li> </ul> <p><b>INFORMATION</b></p> <ul style="list-style-type: none"> <li>Aadhaar is a proof of identity, not of citizenship.</li> <li>Verify identity using Secure QR Code/ Offline XML/ Online Authentication.</li> <li>This is electronically generated ledger.</li> </ul> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> <li>આધાર સમગ્ર દેશમાં માન્ય છે.</li> <li>આધાર તમાને વિવિધ સરકારી અને કનિ-સરકારી સેવાઓને સરવૈભવી મેળવવામાં મદદ કરે છે.</li> <li>તમારું મોબાઇલ નંબર અને ઇમેઇલ આધારમાં અપડેટ કરો.</li> <li>તમારું આરે કોન્યા વાતચત સમયે બેચકાવાર ઓનલાઇન કરવો જોઈએ.</li> </ul> </div> <ul style="list-style-type: none"> <li>Aadhaar is valid throughout the country.</li> <li>Aadhaar helps you avail various Government and non-Government services easily.</li> <li>Keep your mobile number &amp; email ID updated in Aadhaar.</li> <li>Carry Aadhaar in your smart phone - use mAadhaar App.</li> </ul>
  <p>સંલગ્નક્ર. નં. : 0000/00575/88862</p> <p>ભાકરા પર્ભી પર્શુરામ Bhakra Parbhi Parshuram સંલગ્નક્ર. નં. : 0000/00575/88862 સંલગ્નક્ર. નં. : 0000/00575/88862</p>  <p>9511 5334 9232 VID : 9110 0444 9019 3967</p> <p>મારો આધાર, મારી ઓળખ</p>	  <p>સંલગ્નક્ર. નં. : 0000/00575/88862</p> <p>ભાકરા પર્ભી પર્શુરામ Bhakra Parbhi Parshuram સંલગ્નક્ર. નં. : 0000/00575/88862 સંલગ્નક્ર. નં. : 0000/00575/88862</p>  <p>9511 5334 9232 VID : 9110 0444 9019 3967</p> <p>મારો આધાર, મારી ઓળખ</p>

INFINITY SERVICES  
*[Signature]*  
PROPRIETOR

Housekeeping personnel

*[Signature]*



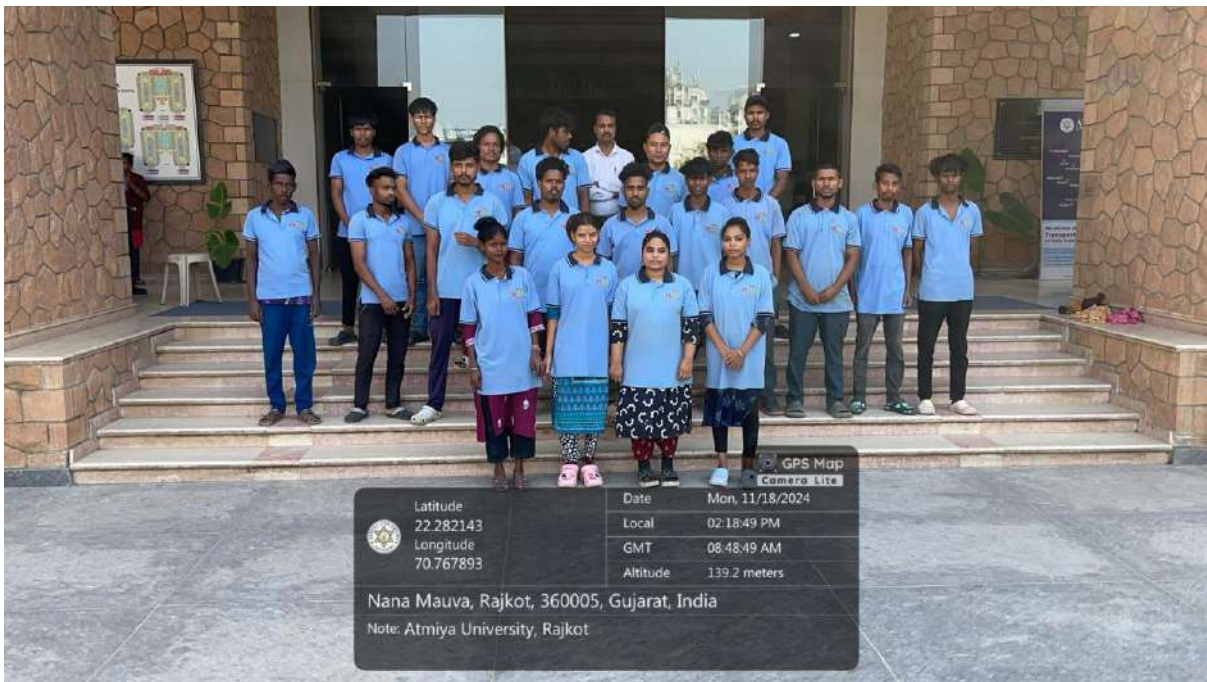


**ATMIYA  
UNIVERSITY**

**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion 7  
KI 7.1**

**I V & B P  
M 7.1.3**



**Registrar**  
Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
**Rajkot**





**1.10.1 Dedicated Support staff for waste collection, segregation & disposal**





## 1.11 ENVIRONMENT AND SUSTAINABILITY POLICY FOR GREEN CAMPUS



# ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act II, 2018)  
Vogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

### Environment and Sustainability Policy for Green Campus

Atmiya University recognizes the critical importance of environmental sustainability and its role in minimizing ecological footprints. Guided by its commitment to the principles of conservation and harmony with nature, the university adopts this Policy to integrate environmental awareness and sustainable practices into its daily academic and administrative operations, education, and community engagement. This policy reflects the university's dedication to fostering a sustainable future.

#### Objective

Atmiya University strives to establish a clean, green, and sustainable campus by:

- Developing, monitoring, and evaluating a policy to guide green campus initiatives.
- Reducing the ecological footprint through sustainable practices.
- Educating students and staff on environmental issues and on building harmony with nature & mother earth to create a healthier, sustainable future.
- Promoting innovative environmental practices to enhance sustainability performance.
- Strengthening an environmentally responsible culture across curricular and extracurricular activities.
- Addressing local and regional environmental challenges with sustainable solutions.
- Ensuring sustainable resource use and minimizing wasteful practices.
- Protecting biodiversity and reducing environmental pollution.

#### Environmental Goals and Targets

The university sets specific goals such as reducing energy consumption, minimizing waste generation, conserving water, managing/recycling/disposal of waste, and promoting biodiversity to enhance its sustainability initiatives.

#### Key Focus Areas

1. **Clean Campus Initiatives:** Regular cleaning drives, waste segregation, and beautification projects.



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2. **Green Energy:** Installing renewable energy sources to reduce dependency on non-renewable energy sources.
3. **Landscaping and Biodiversity:** Developing green spaces, planting neem trees, and conserving biodiversity.
4. **Energy Efficiency:** Installing energy-efficient appliances, natural lighting, and ventilation.
5. **Water Conservation:** Using rainwater harvesting systems, low-flow fixtures, and RO wastewater recycling.
6. **Waste Management:** Segregating solid, liquid, e-waste, and bio-waste for recycling and composting.
7. **Transportation and Mobility:** Promoting biking, carpooling, e-vehicles, and public transit.
8. **Green Building Standards:** Incorporating eco-friendly designs in construction and renovation projects.
9. **Curriculum Integration:** Courses on SDG awareness and environmental science across all disciplines.
10. **Community Engagement:** Conducting workshops, seminars, and outreach programs on environmental topics.

### Key Practices

#### 1. Energy Efficiency

- Transition to energy-efficient devices and systems.
- Encourage behaviour changes for energy conservation.
- Promote renewable energy solutions like solar and biogas.

#### 2. Waste Management and Recycling

- Comprehensive waste management with dedicated recycling and composting units.
- Initiatives like **Parivartan (Paper Recycling Unit)** and **Sarjan (Agricultural Waste Recycling Unit)** to create sustainable products.

#### 3. Water Conservation

- Installation of rainwater harvesting systems and reservoirs with a 17 lakh-litre capacity.
- Xeriscaping and responsible water usage to reduce dependency on municipal water.

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#### 4. Biodiversity and Green Spaces

- Develop gardens, tree plantations, and outdoor educational spaces to promote biodiversity.
- Integrate sustainable farming practices using Panchgavya and Jivamrut fertilizers.

#### 5. Transportation and Mobility

- Establish e-vehicle charging stations, bike racks, and pedestrian-friendly paths.

#### 6. Education and Awareness

- Organize campaigns like Use Solar-Save Nature, Save Energy-Water and tree plantation drives.
- Include sustainability topics in the curriculum to foster awareness and innovation.

#### Implementation and Monitoring

- **Incentives and Recognition:** Reward active participants in sustainability efforts.
- **Budget and Funding:** Allocate resources for projects and seek grants for sustainability initiatives.
- **Compliance and Legal Adherence:** Ensure alignment with relevant environmental laws and regulations.
- **Periodic Review:** Monitor the policy’s impact and revise based on feedback and emerging challenges.

#### Conclusion

Adopting this Policy highlights Atmiya University’s unwavering commitment to environmental stewardship and sustainable development. By fostering a culture of awareness and proactive participation, the university aspires to create a greener and healthier campus, setting a benchmark for future generations. Together, we will build a resilient and sustainable future.



  
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Rajkot

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**ATMIYA  
UNIVERSITY**

**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion 7  
KI 7.1**

**I V & B P  
M 7.1.3**

**1.12 ORGANIC WASTE COMPOSTER MACHINE FOR SOLID WASTE DISPOSAL**



**TAX INVOICE**

SR NO. : 182200100541  
Date of Issue : 22-MAR-2019

REGD. OFFICE OF THE SUPPLIER :			ORIGINAL FOR RECIPIENT						
<b>EXCEL INDUSTRIES LTD.,</b> 184-87, S.V. Road, Jogeshwari (W), Mumbai - 400102, Maharashtra, India CIN : L24200MH1960PLC011807 GSTIN : 27AAACE2488F120 Tel. No.: 022-66464200 / 209 /342 Fax No.: 022-26782409 E-mail : owc@excelind.com Website : www.excelind.co.in			<b>NAME &amp; ADDRESS OF SUPPLIER:</b> <b>EXCEL INDUSTRIES LTD.,</b> EXCEL INDUSTRIES LIMITED, C/O KAMLAKAR PATIL, BHIWANDI GDN, BLD. B/12, GALA No. 9, PRITESH C/PLX, ANJUR ROAD, VAL VILAGE, BHIWANDI, THANE 421302 GSTIN : 27AAACE2488F120						
<b>NAME &amp; ADDRESS OF THE CUSTOMER /RECIPIENT</b> Customer Code No.: 30800  <b>K K MEHTA HOSTEL</b> YOGIDHAM GURUKUL CAMPUS, NEAR WATER TANK OPP CENTRAL SCHOOL, KALAWAD ROAD RAJKOT, GUJARAT, 360005, IN State : GUJARAT State Code:			<b>ADDRESS OF DELIVERY:</b> YOGIDHAM GURUKUL CAMPUS, NEAR WATER TANK OPP CENTRAL SCHOOL, KALAWAD ROAD RAJKOT, GUJARAT, 360005, IN  State : GUJARAT State Code:		Commissionerate : S.O. No.: 19041887 P.O. No. & Date: KKM/OWC/IRCO Min/PO/04-2018-19 DTD.08/03/19 Vehicle No.: L.R. No.: Delivery ID : 4686949 Mode of Transport: By Road Transporter 1: Transporter 2: Freight Term :				
<b>DESCRIPTION OF GOODS:</b>									
Sr. No.	No. & Description of Packages	HSN	Notification No. & Date	OWC SR NO	Total Quantity	UOM	Rate Per UCM (Rs.)	Value of Supply (Rs.)	
1	1 NOS OROCOM ( COMPOSTING MACHINE )	8479	M-134		1	NOS	131000	131000.00	
								<i>Organic waste converter</i>	
<b>TOTAL</b>							1		131000.00
<b>OTHER PARTICULARS:</b>							Discount		
							Taxable value of supply		131000
							IGST	12%	15720
<b>GRAND TOTAL</b>									146720
GST payable in Rupees :		Fifteen Thousand Seven Hundred Twenty Only							
Total Invoice Value Rs.:		One Lakh Forty Six Thousand Seven Hundred Twenty Only							
Mode of Payment :		Credit Period		50%AD40%RC1 0%	Due Date	22-MAR-19	Adv. Receipt Voucher No.		
15% interest on delayed payment. For Ex-Works, our responsibility ceases after the goods leave our works and are despatched entirely at owner's responsibility. Complaint of weight shortage will be entertained if it is more than 0.5% of the consignment quantity. Subject to jurisdiction of Mumbai / Invoicing Location <b>Received:</b> Above material in good condition. Duplicate for Transporter copy of Tax Invoice. Certificates of Analysis, Term Card, MSDS, Leaflet of Instructions to Drivers & Cleaners Training to Driver & Cleaner.							For EXCEL INDUSTRIES LTD.  <b>AUTHORISED SIGNATORY</b>		
<b>RECEIVER'S SIGNATURE</b>			<b>PREPARED BY</b>						





**1.13 WEALTH FROM WASTE VALUE ADDED PROGRAM**



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Atmiya University, Rajkot-Gujarat-India

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Rajkot**





**ATMIYA UNIVERSITY**

Department of Biotechnology

**Part III**

**Skill Enhancement Course (SEC) – I - Value Added Course (VAC)**

For the students admitted from A.Y. 2021-2022 & onwards

Offered by: Department of Biotechnology, Faculty of Science	Offered to: (Please mark '√' as applicable)	
	<input type="checkbox"/>	Students across the University other than the offering department.
	<input checked="" type="checkbox"/>	Students across the University including the offering department. (The course should not be a part of regular curriculum of the offering department.)
Semester : II – V (3 year programs) / VII (4 year programs)		
Course Code	Course Title	Course Credit and Hours
	Wealth from Waste	1 Credit - 4 hrs / wk

**Objective of the course:**

1. To develop Sustainable Orderliness, Enhanced Ecological Balance, Beauty, Productivity and Dignity in the society and nature.
2. To develop the ability to critically think and creatively use the unused natural resources.
3. To sensitize the students regarding environmental concerns and social responsibility
4. To explore market opportunities for the recovered and recycling materials among the students
5. To provide platform for business model through experiential learning.

**Target Skills (Course outcomes) :**

The students will be able to develop

1. Critical Thinking
2. Creativity
3. Collaboration & Team Work
4. Communication & Presentation
5. Recognize, Build & Appraise the trash as recourse for eco friendly Sustainable Solution.





**Justification and references for the course (Mapping with NSDC/NSQF/Sector Skill Council/Regional needs/any other) :**

Our ATMIYA University is working with the mission of nurturing the creative thinkers and leaders through transformative learning and core value like Co-existential thinking and Green - thinking. To fulfill the same, this course has been proposed since 2016. This course was designed to nurture our core value of "harmony with nature" and Sustainable development. The various discarded resources of the campus generated everyday are used as raw material to prepare variety of useful creative products.

**Reference:**

**Course Description:**

The course is skill based where students will learn to identify different unused natural resources and convert them into creative and useful products. The course also provides knowledge of marketing like product packaging, labelling, branding, costing etc.. The course addresses SDG- 8,9,11,12 and 13: Decent Work and Economic Growth, Industry, Innovation and Infrastructure, Sustainable Cities and Communities, Responsible Production & Consumption and Climate Action.

Course Content	Hours
<b>Module-I: Waste Material: Collection and Treatment</b>	6 hrs
<ul style="list-style-type: none"> <li>• Survey of available/generated waste</li> <li>• Collection of waste materials: Bio waste, Cloth waste, E-waste and Plastic waste</li> <li>• Processing of waste material: Dying with natural color, painting, designing etc...</li> <li>• Hardening of material: drying/ironing</li> </ul>	
<b>Module-II : Product Preparation using waste materials</b>	10 hrs
<ul style="list-style-type: none"> <li>• Procedure of flower preparation from different waste</li> <li>• Procedure for the preparation of different decorative items from collected waste</li> <li>• Procedure for the preparation of different household items from collected waste</li> </ul>	
<b>Module-III : Use of products for different purposes</b>	13 hrs
<ul style="list-style-type: none"> <li>• <b>Products from Bio waste :</b> Different flower arrangements including small and large handy bouquet, table bouquet, Photo frames, Flower vase, Wall Hangings; Garlands and Ornaments</li> <li>• <b>Products from Cloth waste:</b> Carpets, Doormat, Purses, Bags, Hangings, Decorative items etc.,</li> <li>• <b>Products from E-waste:</b> Containers, Stationary items, Home decorative items and household items</li> <li>• <b>Products from Plastic waste:</b> Containers for terrace gardening, Containers to hold different items, Home decorative items and household items</li> </ul>	





<b>Module-IV : Marketing</b>	8 hrs
<ul style="list-style-type: none"> <li>• Need analysis, pricing and basic marketing strategies</li> <li>• Preparation and designing of price list; Methods of advertisement</li> <li>• Packaging of products; Exhibition cum sale</li> <li>• Survey for the need of Product and its supply to the market</li> </ul>	
<b>Module-V : Project: Innovative Creation through Reuse and Recycling of Waste</b>	3 hrs

**Suggested laboratory experiments / other activities:**

1. Improving the Self life of the product
2. Marketing through pamphlet designing
3. Exhibition cum sale

**Pedagogic tools:**

1. Videos
2. Oral Discussion
3. Live Demonstrations
4. Hands on training
5. Assignment

**Reference Books:**

1. Susan Wasinger, Eco Craft: Recycle, Recraft, Restyle, Lark Books, 4 Division of Sterling Publishing co., 2009
2. Maria Noble, How to make 100 Paper Flowers, Creative Publishing International, 2013

**Suggested reading / E-resources**

1. <https://books.google.co.in/books?id=RzJ59JWEBS0C&printsec=frontcover&dq=eco+craft&hl=en&sa=X&ved=0ahUKewjxufe76q7aAhXMD8KHcuEAFwQ6AEIKDAA#v=onepage&q=eco%20craft&f=false>
2. <https://books.google.co.in/books?id=3Uv0AwaAQBAJ&printsec=frontcover&dq=DIY+craft+for+flowers&hl=en&sa=X&ved=0ahUKewj4pf2Q6a7aAhVCqo8KHRPcAH8Q6wEFOzAD#v=onepage&q&f=false>

**Suggested MOOCs:**

1. <https://www.classcentral.com/course/from-waste-to-value-20611>
2. <https://www.classcentral.com/course/edx-solid-waste-management-18989>
3. <http://www.basel.int/Implementation/TechnicalAssistance/MOOC/tabid/4966/Default.aspx>

**Total No of Students Benefitted: 96**





**1.14 WASH INITIATIVE (WATER, SANITATION, HYGIENE) AT THE CAMPUS**



Initiatives for **WaSH (Water, Sanitation, Hygiene)** at the Campus

**SDGAction39446**

- Water recycling plants
- Waste water monitoring equipment
- Sanitary pad vending machine
- Sanitary pad incineration machine for hygiene



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## 1.15 WASTE MANAGEMENT AND DISPOSAL POLICY



# ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act 11, 2018)  
Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

### Waste Management and Disposal Policy

Atmiya University is committed to sustainable development and environmental stewardship. The **Waste Management and Disposal Policy** aligns with the principles of **Jeevan Vidya**, emphasizing harmony with nature, and promotes practices to minimize, manage, and responsibly dispose of waste. The policy integrates the **3Rs (Reduce, Reuse, Recycle)** with innovative waste management techniques to create a cleaner and healthier campus environment. This policy is aligned with UN-SDGs 6,11,12,13,14,15

#### Objectives

1. To minimize the generation of waste and promote resource conservation.
2. To ensure proper segregation, handling, and disposal of waste in compliance with environmental regulations.
3. To create awareness and encourage participation in sustainable waste management practices among stakeholders.
4. To foster research and innovation in waste management technologies.

#### Scope

This policy applies to all waste generated by the university, including solid, liquid, biomedical, and e-waste, across academic, administrative, and residential facilities.

#### Key Policy Provisions

##### 1. Waste Collection and Segregation

- Provisions of Segregated Bins
- Waste is segregated at the source to facilitate recycling, composting, and proper disposal.
- Campus-wide awareness campaigns promote waste segregation practices.

##### 2. Solid Waste Management

- **Organic Waste:**
  - Row Food waste and Flower Waste to produce nutrient-rich compost for natural farming.





# ATMIYA UNIVERSITY

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- **Paper Waste:**
  - Used paper is to be converted into multifunctional sheets, Filter Paper, File Folder, Envelops, Card Sheets etc.
- **Agricultural Waste:**
  - Creating sustainable products like Handy & table-top bouquets, photoframes, Garland, Pen-stand etc.
- **Plastic Waste:**
  - Converting plastic into useful items such as bags, packaging materials etc.

### 3. Liquid Waste Management

- **Effluent Treatment:**
  - Treatment of Laboratory and chemical wastewater.
- **Wastewater Recycling:**
  - Reuse of Treated wastewater for irrigation, landscaping, and cooling purposes.
- **Rainwater Harvesting:**
  - Creating necessary infrastructure for harvesting the rainwater.

### 4. Biomedical Waste Management

- Segregating into leak-proof, color-coded containers as per guidelines.
- Providing Regular training to ensure safe handling and disposal of biomedical waste, minimizing environmental impact and health risks.

### 5. E-Waste Management

- Repurposing Components from outdated equipment.
- Recycling and refurbishment programs for E-waste to extend the lifecycle of electronic devices, reducing landfill contributions.
- Disposing through authorised and registered recyclers
- Providing Students opportunities to gain hands-on experience in handling and managing e-waste through workshops and practical sessions.

### 6. Air-waste Management

- Planting trees and implementing systems for controlling pollution and removes harmful substances.
- Implementing systems for Capturing and removing hazardous fumes, vapours and particles from labs



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### Implementation Strategies

1. **Awareness Campaigns:** Regular workshops and seminars to educate students, staff, and faculty on waste management best practices.
2. **Monitoring and Audits:** Routine waste audits to track waste generation, segregation, and disposal efficiency.
3. **Collaboration with Experts:** Partnerships with environmental agencies and NGOs to enhance waste management practices.
4. **Policy Compliance:** Adherence to local and national environmental regulations for waste disposal.

### Outcomes and Benefits

- Creation of a cleaner, healthier, and more sustainable campus environment.
- Reduction in the ecological footprint of university operations.
- Financial savings through resource recovery and revenue from compost and recycled materials.
- Practical learning opportunities for students through active participation in waste management initiatives.

### Review and Amendments

This policy will be reviewed annually by the **Environmental and Sustainability Committee** to incorporate advancements in waste management technologies and address evolving campus needs.

### Conclusion

Atmiya University's Waste Management and Disposal Policy reflects its dedication to environmental responsibility and sustainable practices. By minimizing waste, maximizing resource recovery, and educating stakeholders, the university strives to lead by example, creating a culture of harmony with nature and responsible waste management.

  
Registrar  
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Rajkot



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**1.16 WASTEWATER RECYCLING**

Bills for the purchase of equipment's for the facilities created under this metric–Representative



Making Water Perform

**H<sub>2</sub>O Scientific™**  
• Consultancy • Sales • Service

**Debit Memo TAX INVOICE** Original For recipient

M/s.: **ATMIYA UNIVERSITY FACULTY OF SCIENCE**  
Rajkot - 360005  
Place of Supply : 24-Gujarat

Invoice No. : H2O/01768  
Date : 23/12/2020  
Chalan No. :  
Chalan Dt. :  
P.O. No. & :  
Vehicle No. :

SrNo	Product Name	HSN/SAC	Qty	Rate	GST%	Amount
1	ROTAMETER ASTRAL 500 (Small)	9026	1.000	500.00	18.0	500.00
2	ROTAMETER ASTRAL 1200 (Small)	9026	1.000	600.00	18.0	600.00

GSTIN No.: 24AAEFH3232M1ZT  
Total GST: Two Hundred Sixteen Only  
Sub Total: 1200.00  
Amount: One Thousand Four Hundred Sixteen Only

Slab	Taxable Value	Rate	Central Amount	State/UT Rate	State/UT Amount	Taxable Amount
18.00%	1200.00	5.0%	108.00	5.0%	108.00	1200.00

Central Tax: 108.00  
State/UT Tax: 108.00  
Grand Total: 1,416.00

Terms & Condition :  
1. Goods once sold will not be taken back.  
2. Interest @18% p.a. will be charged if payment is not made within due date.  
3. Our risk and responsibility ceases as soon as the goods leave our premises.  
4. \*Subject to 'Rajkot' Jurisdiction only. E.S.O.E'

Bank Name: HDFC BANK Bank A/c. No.: 0379256C005465 IFSC Code: HDFC0001698

Mahadev wadi Main Road, Opp. School No. 47, Laxminagar, Rajkot-360 004. (Rajarat), India.  
www.h2oscientific.co.in

Vasu Helix CHEMICALS

Atmiya University Registrar



**PARTH ENTERPRISE**

PARTH COMPLEX, 150 FERING ROAD, MAVDI CHOWKDI, RAJKOT-360004. MO. NO.: 99090 40254

---

**Dabit Memo TAX INVOICE Original**

M/s. : **ATMIYA UNIVERSITY(FOBC)**

ATMIYA UNIVER, "Yogidham-Gurukul" Campus,  
Kalavad Road,  
**RAJKOT - 360005**  
Party Mo.No.: 9727700541

Place of Supply : 24-Gujarat

Invoice No. : **GI/4086** , Date: **16/02/2023**  
REF.- PO/207-2022-23  
MATERIAL TYPE : SINTEX  
Delivery/Address :

SrNo	Product Name	Code	HSN/SAC	Qty	Rate	GST%	Amount
1	SINTEX DOUBLE WALL TANK WHITE (DW) 2000L <i>Water Tank</i>	CCWS-0200-01-	39251000	1.000	14915.25	18.0	14915.25

CR. No. **AMS/PO/367540359**  
Bank **ASB**  
Date **02/03/23**

GSTIN No.: 24AKPB700BD1Z3      Company State: 24-Gujarat      1.000      Sub Total      14915.25

Bank Name : ICICI BANK  
Bank A/c. No. : 183905001303  
RTGS/IFSC Code : ICIC0001635  
Bank Branch : Laxminagar,Rajkot-360004

Total GST : *Two Thousand Six Hundred Eighty Four And Seventy Four Paise Only*

Bill Amount : *Seventeen Thousand Six Hundred Only*

Ratewise GST Summary :					
GST Slab	Taxable Value	C/I GST	C/I GST Amt.	SGST	SGST Amt.
18.00%	14915.25	9.00%	1342.37	9.00%	1342.37

Taxable Amount : 14915.25  
Central Tax : 1342.37  
State/UT Tax : 1342.37

Note : PO NO. AUF0BC/chemical/PO/207-2022-23 (Jitendrabhai-6038Y3448)

ROUND OFF : 0.00  
**Grand Total : 17,600.00**

Terms & Condition :

- Goods once sold will not be taken back.
- Interest @18% p.a. will be charged if payment is not made within due date.
- Our risk and responsibility ceases as soon as the goods leave our premises.
- \*Subject to 'RAJKOT' Jurisdiction only. E.&O.E\*

For, PARTH ENTERPRISE  
  
(Authorized Signatory)





Tax Invoice

<b>SHUBHAM WATER SOLUTION PVT LTD</b> SR NO 28, SHIVAM IND. ESTATE, PLOT NO-47, GONDAL ROAD, RAJKOT-360002, GUJARAT 9824411256 GSTIN/UIN: 24AAOCS9186N1ZC State Name : Gujarat, Code : 24 E-Mail : shubhamrc@yahoo.com Consignee (Ship to) <b>Atmiya University</b> Yogidham, Kalawad Road, Rajkot - (Gujarat) State Name : Gujarat, Code : 24 Contact : 9727700506 E-Mail : store@aris.edu.in		Invoice No. <b>SWS/R/109</b> Delivery Note Reference No. & Date. <b>dt. 23-Nov-23</b> Buyer's Order No. Dispatch Doc No. Dispatched through <b>Rikshaw</b> Terms of Delivery	Dated <b>23-Nov-23</b> Mode/Terms of Payment <b>30 Days</b> Other References <b>Phone Call</b> Dated Delivery Note Date Destination <b>Rajkot</b>
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Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	20" * 4" Bag Filtre Bag	84219900	20 Nos	180.00	Nos	3,600.00
2	20" * 4" Filter Cartridge - <i>Spon filter canto</i>	84219900	20 Nos	250.00	Nos	5,000.00
3	Membrane Cleaner A 5KG <i>RO chemical</i>	38249022	4 Nos	750.00	Nos	3,000.00
4	Membrane Cleaner B 5KG	38249022	4 Nos	750.00	Nos	3,000.00
						14,600.00
						Output CGST
						1,314.00
						Output SGST
						1,314.00
Total			48 Nos			17,228.00

Amount Chargeable (in words) : **INR Seventeen Thousand Two Hundred Twenty Eight Only** E. & O.E.

HSN/SAC	Taxable Value	CGST		SGST/UTGST		Total Tax Amount
		Rate	Amount	Rate	Amount	
84219900	8,600.00	9%	774.00	9%	774.00	1,548.00
38249022	6,000.00	9%	540.00	9%	540.00	1,080.00
<b>Total</b>	<b>14,600.00</b>		<b>1,314.00</b>		<b>1,314.00</b>	<b>2,628.00</b>

Tax Amount (in words) : **INR Two Thousand Six Hundred Twenty Eight Only**

Company's Bank Details  
 A/c Holder's Name : SHUBHAM WATER SOLUTION PVT LTD  
 Bank Name : H D F C Bank  
 A/c No. : 01012580013904  
 Branch & IFS Code : MAIN BRANCH & HDFC0000101  
 SWIFT Code :  
 for SHUBHAM WATER SOLUTION PVT LTD  
*C. Bhandari*  
 Authorised Signatory

Declaration  
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

This is a Computer Generated Invoice





**ATMIYA UNIVERSITY**


**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion 7**

**I V & B P**

**KI 7.1**

**M 7.1.3**

**BEDIYA**  **SILVER**  
PUMPS & MOTORS

Tax Invoice  
Kanta Vikasgruh Circle, Dhebar Road, Rt. Meladimata Temple, Rajkot, Gujarat, India, Tel: 9687615604

GSTIN Number: 2448BCC086646329	Transport Name: A B R Parcel Service	Vehicle No:
Invoice No: 83988856	Lr. No: X	Date of Supply: 14/04/2023
Invoice Date: 14/04/2023	Lr. Date: 14/04/2023	Place of Supply: Gujarat
Order Number:	Way Bill No.:	

Recipient (Bill to): Atmiya University Yogeshwar Gurukul Campus Kalsavad Road Rajkot-360005 Gujarat Phone No. 9727700541, 9823321085 State Code: 24 GSTIN ID:	Consignee (Ship to): Atmiya University Yogeshwar Gurukul Campus Kalsavad Road Rajkot-360005 Gujarat Phone No. 9823321085 State Code: 24 GSTIN ID:	4CK No 14/04/2023
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Sl. No.	Item Description	Qty	Unit	Rate	Amount	Tax	Total
1	SS80 2024 2800 150x85 24 -Sr.No.- DV602303 Weight 157.5	1	NOG	116745.00	40860.75	75884.25	6829.58
					40860.75	75884.25	6829.58
					40860.75	75884.25	6829.58

**PAID**  
27/04/23

SSR	Taxable	Tax	IGST	AMT	CGST	AMT	SGST	AMT
84137010	75884.25	0.00	0.00	9.00	6829.58	9.00	6829.58	
	75884.25	0.00			6829.58		6829.58	

TCS %  
Round Off: -0.41

INR Eighty-nine Thousand Five Hundred Forty-Three Only

Page No. 1 Card Next Page Last Page

(1) Our responsibility ceases on delivery of goods to the carriers or Railway station on tony Warehouse. (2) Warranty will be as per Warranty norm mentioned in the Agreement. (3) All payments to the company should be made through bank chequid/DRTGS only. No cash transactions to be done. However the company is not liable to accept the payment in the manner in which the company desires. (4) Interest @ 24% will be charged on invoices is remains unpaid above agreed Credit Days Limit. (5) Goods once sold will not be taken back Or Exchanged. (6) Any dispute subject to RAJKOT Jurisdiction only.

We declare that this Invoice shows the actual price of the goods described and that all particulars are true and correct.  
For SILVER CONSUMER ELECTRICALS PRIVATE LIMITED

*Handwritten Signature*  
Authorized Signatory

**SILVER CONSUMER ELECTRICALS PRIVATE LIMITED**  
Kanta sri Vikasgruh circle, Dhebar Road, Rajkot-360002, Gujarat (India).  
+91 96876 15604 | info@silverconsumer.com | www.silverconsumer.com

*Handwritten Signature*

**Registrar**  
Atmiya University, Rajkot-Gujarat-India  
**Atmiya University**  
**Rajkot**





**CHANDAN TRADERS**  
SUBHAM COMPLEX, NEAR GANGOTRI DAIRY, MURLIDHAR CHOCK,  
SADHUVASANI ROAD, RAJKOT, MG.-80002 50001

Debit Memo TAX INVOICE Original

To: **ATMIYA UNIVERSITY** Invoice No. : GST194  
Date : 04/12/2023

RAJKOT  
Place of Supply: 24-Gujarat

SrNo	Product Name	HSN	Qty	Unit	GST Paid Rate	Rate	Amount
1	SHOWER STAND SQUARE <i>Shower Arm</i>	7619	3	NO.	55.00	50.00	150.00
2	BALD/ALVE BRASS 2" (50mm)	8481	6	NO.	1342.00	1137.29	6823.74

Date: 04/12/23

GSTIN No. : 24AAHFC7127R1Z0 Taxable Amount 6973.74

Bank Name : AXIS BANK- Sadhuvanani Road  
Bank A/C No. : 921020018955404  
RTGS/IFSC Code : UTIB0004031

CGST 9.00% 627.64  
SGST 9.00% 627.64  
ROUND OFF -0.02  
**Grand Total 8,229.00**

Amount: Eight Thousand Two Hundred Twenty Nine Only

Receiver Signatures: For, CHANDAN TRADERS  
*S. P. Mangra*  
(Authorized Signatory)

**Terms & Condition :**  
1. Proof of Purchase Bill/Warranty Card must be provided all Warranty Claims Requests.  
2. Interest @10% p.a. will be charged if payment is not made within due date.  
3. Goods once sold will not be taken back. 4. Subject to RAJKOT Jurisdiction only. E.S.C.E

**CHANDAN TRADERS**  
SUBHAM COMPLEX, NEAR GANGOTRI DAIRY, MURLIDHAR CHOCK,  
SADHUVASANI ROAD, RAJKOT, MG.-80002 50001

Debit Memo TAX INVOICE Original

To: **ATMIYA UNIVERSITY** Invoice No. : GST491  
Date : 15/01/2024

RAJKOT  
Place of Supply: 24-Gujarat

SrNo	Product Name	HSN	Qty	Unit	GST Paid Rate	Rate	Amount
1	MARU PLUTO BIBCOCK	8481	12	NO.	273.00	231.36	2776.32
2	PUSH BIBCOCK	8481	6	NO.	322.00	357.63	2145.70

Date: 30-1-24

GSTIN No. : 24AAHFC7127R1Z0 Taxable Amount 4922.10

Bank Name : AXIS BANK- Sadhuvanani Road  
Bank A/C No. : 921020018955404  
RTGS/IFSC Code : UTIB0004031

CGST 9.00% 442.99  
SGST 9.00% 442.99  
ROUND OFF -0.08  
**Grand Total 5,808.00**

Amount: Five Thousand Eight Hundred Eight Only

Receiver Signatures: For, CHANDAN TRADERS  
*S. P. Mangra*  
(Authorized Signatory)

**Terms & Condition :**  
1. Proof of Purchase Bill/Warranty Card must be provided all Warranty Claims Requests.  
2. Interest @10% p.a. will be charged if payment is not made within due date.  
3. Goods once sold will not be taken back. 4. Subject to RAJKOT Jurisdiction only. E.S.C.E







# ATMIYA UNIVERSITY

NAAC – Cycle – 1  
AISHE: U-0967

Criterion 7

I V & B P

KI 7.1

M 7.1.3

Office: Near Sarla Vihar Bridge, Ruda Nagar-2, Nr. PWD Office,  
University Post Office, Kalawad Road, Rajkot, Gujarat (360005)  
Cell: 99981 51077, 81257 23222, Email: atsanjaypata@gmail.com  
Godown: No. 1, 4-5, Ruda Transport Nagar, Opp. Berger Paints,  
Bh. Saat Hanuman, Kuvadva Road Navagam, Cell: 79902 53182



GSTIN : 24AAUPU3429M12X

DEBIT RETAIL INVOICE ORIGINAL

To, ATMIYA UNIVERSITY  
NR. WATER TANK,  
"YOGEDHAM-GURUKUL"CAMPUS,  
KALAWADROAD,  
RAJKOT 360005 (Gujarat)  
Ph. No:  
State : Gujarat Code : 24  
Party's GST No:

BOOK NO. : 127  
CHALLAN NO. : 12652  
CHALLAN DATE : 28/02/24  
TRANSPORT-ID :  
DELIVERY FROM : RAJKOT  
AGAINST BILL NO :  
AGAINST P.O. NO : AU/PL/NEING/PO/253-2023-24  
DATE: 28.02.2024

S.No	Particulars	ITEM QUANTITY	UNIT	PRICE	TAXES	AMOUNT
1	APVC PIPE SCH40 - 2"	39172390	78.00 MTR.	264.00	45%	11,325.60
2	APVC PIPE SCH40 - 1"	30172390	150.00 MTR.	120.90	45%	9,974.25
3	APVC ELBOW 90° SCH80-1"	39174000	30.00 NOS.	29.80	45%	491.70
4	APVC RED.TEE SCH80-1"X 1/2"	39174000	15.00 NOS.	32.50	45%	268.13
5	APVC SOCKET SCH80-1" (25MM)	39174000	30.00 NOS.	20.30	45%	334.95
6	APVC ELBOW 90° SCH80-2" (50MM)	39174000	10.00 NOS.	110.60	45%	608.30
7	APVC TEE SCH80 - 2" (50MM)	39174000	6.00 NOS.	122.90	45%	405.57
8	APVC SOCKET SCH80-2" (50MM)	39174000	20.00 NOS.	60.40	45%	664.40

PAID  
09/05/24

339 Sub Total 24,072.90

Bank Details: HDFC BANK LTD A/C No: IFSC CODE: BRANCH: KALAWAD ROAD...

Sub Total 24,072.90  
SGST 2,106.56  
CGST 2,106.56

GST Summary	Taxable Amount	SGST	CGST	Total GST
GST @18.00	24072.90	2106.56	2106.56	4333.12

Round Off -0.02  
Grand Total 28,406.10

Total : 24072.90 2106.56 2106.56 4333.12

Rs. Twenty eight thousand four hundred six only.

TERMS:  
\* All Transaction Subject to RAJKOT Jurisdiction.  
\* Our Responsibility Cease As Soon As The Goods Leave Our Premises.  
\* Payment Should Be Made immediately as Term.  
\* on delayed payment 24% interest will be charged.

28,406/- Inv.No-2551  
3,743/- " 2671  
32,153/-

For, EASY FITTING TRADING CO.  
Authorized Signatory



Registrar  
Atmiya University, Rajkot-Gujarat-India  
Atmiya University  
Rajkot

