# Khwaja Moinuddin Chishti Urdu, Arabi- Farsi University

## Lucknow, U.P.

# Environmental Audit Report

## 2018 - 2019

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***AUDITED BY***

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# Environmental Audit

# 1. Environmental Audit

Modernization and industrialization, while enhancing human comfort, have led to resource exploitation, pollution, and environmental degradation. Awareness of global issues like climate change necessitates a shift towards sustainable development. Initiatives such as Swachh Bharat Abhiyan and the Green Campus, Clean Campus mission highlight the importance of environmental sustainability, especially for higher educational institutions.

## 1.1 Environment Audit

Environment auditing involves assessing whether an institution's practices align with eco-friendly and sustainable standards. While traditionally efficient in resource use, habits of excess consumption, particularly in common areas, have emerged over time. It's imperative to evaluate if processes are utilizing resources beyond necessity and handling waste appropriately. In the modern context, waste is redefined, and environment audit offers a systematic approach to optimize natural resource utilization. Amidst climate change and resource depletion, auditing processes for greener, cleaner outcomes is essential. Government mandates, like India's National Environment Policy of 2006, require organizations to conduct green audits, ensuring a clean and healthy environment both within and outside their premises.

## I. Water Audit

Water, a vital national resource, is becoming increasingly scarce due to population growth and rising standards of living, leading to heightened demand exacerbated by industrialization and urbanization. Unchecked industrial effluent discharge further diminishes water quality in available bodies. Prime Minister Narendra Modi initiated the 'Jal Shakti Abhiyan' to address water scarcity, urging collective efforts in water conservation, including conducting water audits across all sectors. A water audit involves both qualitative and quantitative analysis to identify opportunities for reducing, reusing, and recycling water, thereby minimizing losses and optimizing water use in various sectors like irrigation, domestic, power, and industry. Accurately measuring water losses due to different uses is crucial for implementing effective water conservation measures.

The university campus spans 28 acres, adorned with academic, administrative, and support service buildings amidst lush greenery. Water usage encompasses all activities conducted on campus sourced from various water sources, including residential buildings, academic facilities, and outdoor areas. Wastewater comprises water transported off-campus, including sewage and residential water used in cooking, bathing, and laundry, along with wastewater from laboratory activities, which ultimately drains into the sink or drainage system.

### Water Quality Test

Water quality criteria for bathing water are essential to determine their suitability for organized outdoor bathing activities. These criteria, including limits for fecal coliform, fecal streptococci, pH, dissolved oxygen, and biochemical oxygen demand, ensure protection for bathers' skin and delicate organs. The established ranges accommodate environmental fluctuations, such as seasonal changes and variations in flow conditions, providing reasonable freedom from pollutants and obnoxious gases. The specified criteria aim to maintain water purity and prevent potential health risks associated with outdoor bathing.

| Sr. No. | Locations | Parameters |
|---|---|---|
| 1. | Admin Building | TDS – 170 ppm<br>EC – 422 µS/cm |



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| Sr. No. | Locations | Parameters |
|---|---|---|
| | | pH – 7.34 |
| 2. | Girls Hostel | TDS – 169 ppm<br>EC – 408 µS/cm<br>pH – 7.37 |
| 3. | Boys Hostel | TDS – 168 ppm<br>EC – 340 µS/cm<br>pH – 7.32 |

**Water Consumption in KMC Urdu, Arabi- Farsi University, Lucknow**

**Details of Water Motor**

| Sr. No. | Water Motor Location | Pumping Capacity in HP |
|---|---|---|
| 1. | Academic Block | 2 HP |
| 2. | Library | 1.5 HP |
| 3. | Girl's Hostel | 1.5 HP |
| 4. | Vice Chancellor's House | 1.5 HP |
| 5. | Boy's Hostel | 1.5 HP |
| 6. | Staff Quarter | 7.5 HP |
| 7. | Guest House | 20 HP |
| 8. | Beside the Guest House | 1.5 HP |
| 9. | Behind the Admin Block | 1.5 HP |

**Details of Water Motor**

| Sr. No. | Water Motor Location | No. of water tanks | Capacity (in liter) | Total filling in a day (liter) |
|---|---|---|---|---|
| 1. | Academic Block | 21 | 1000 | 42000 |
| 2. | Admin Block | 9 | 1000 | 18000 |
| 3. | Guest House | 9 | 1000 | 9000 |
| 4. | Gymnasium | 2 | 1000 | 2000 |
| 5. | Library | 4 | 1000 | 8000 |
| 6. | Type – 2 Residence | 6 | 1000 | 6000 |
| 7. | Type – 3 Residence | 12 | 500 | 6000 |
| 8. | Boy's Hostel | 9 | 1000 | 18000 |
| 9. | Girl's Hostel | 7 | 1000 | 14000 |
| 10. | Vice Chancellor's House | 2 | 1000 | 2000 |
| 11. | F. O. House | 1 | 1000 | 1000 |
| 12. | Registrar's House | 1 | 1000 | 1000 |



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| Sr. No. | Water Motor Location | No. of water tanks | Capacity (in liter) | Total filling in a day (liter) |
|---|---|---|---|---|
| 13. | Overhead tank | 1 | 200000 | 200000 |





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**Water test at KMCUAFU**

## II. Waste Management

The waste management assessment aims to achieve the following objectives:

i. Evaluate proposed activities to determine the type, nature, and estimated volu to be produced.
ii. Identify potential environmental impacts resulting from waste generation at the
iii. Recommend suitable waste handling and disposal measures in compliance legislative and administrative standards.
iv. Categorize waste materials where possible (such as inert material or waste appropriate disposal, including consideration of public filling areas or landfills.

**Waste Management at KMC Urdu, Arabi- Farsi University: Promoting Susta Responsibility**

At KMC Urdu, Arabi- Farsi University, we recognize the critical importance of waste m fostering a sustainable environment and instilling a sense of responsibility among faculty, and staff. With our commitment to environmental stewardship, we have comprehensive waste management practices that encompass all kinds of waste, ens resource utilization and minimizing environmental impact. Below are our strategies various types of waste effectively:

1. **Organic Waste Management: Cultivating Sustainability**

Organic waste, comprising food scraps and natural debris, holds immense potential f

utilization beyond traditional composting methods. At KMC U
innovative approaches to manage organic waste while cultiva

Through initiatives such as anaerobic digestion and bioco
nutrient value of organic waste. Anaerobic digestion involv
oxygen-deprived environment to produce biogas, a renewab
microorganisms to transform organic waste into valuable pro

By exploring alternative methods of organic waste managem
emissions but also generate renewable energy and valua
embracing sustainable practices underscores our dedicati
resource conservation at KMC Urdu, Arabi- Farsi University.

### 2. Recycling Initiatives: Reducing, Reusing, Recycling

Recycling is a cornerstone of our waste management strat
minimizing waste sent to landfills. Through robust recycling
as paper, plastic, glass, and metal for recycling. Additiona
materials in campus operations, promoting a circular econ
recycling, we strive to minimize our environmental impa
consumption.

### 3. Hazardous Waste Handling: Ensuring Safety and Con

Proper management of hazardous waste is essential to prot
At KMC Urdu, Arabi- Farsi University, we adhere to strict pro
such as chemicals, batteries, and electronic waste. Our de
team ensures the safe storage, handling, and disposal of such
standards. By prioritizing safety and environmental protectio
with hazardous waste and uphold our commitment to sustai

### 4. E-Waste Management: Embracing Responsible Tech

In today's digital age, electronic waste (e-waste) presents a
to its toxic components and rapid accumulation. At KMC
implemented initiatives to responsibly manage e-waste ge
computers, printers, and mobile phones. Through electroni
the proper disposal and recycling of obsolete electronic
leaching into the environment. By embracing responsi
demonstrate our commitment to environmental stewardsh

### 5. Awareness and Education: Empowering Change

Central to our waste management efforts is the promotio
sustainable practices. Through workshops, seminars, and e
campus community to adopt environmentally friendly be
fostering a culture of sustainability, we inspire individuals
driving collective efforts towards a cleaner and greener fut

In conclusion, waste management at KMC Urdu, Arabi-
approach aimed at promoting sustainability, responsibility,

innovative initiatives and collaborative efforts, we strive to minimize waste generation, maximize resource efficiency, and foster a culture of sustainability within our campus community and beyond. Together, we can create a more sustainable world for present and future generations.



**Dustbins for collecting waste in university campus**



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