

# Certificate of Registration

This is to certify that

# CENTRAL UNIVERSITY OF KARNATAKA

ALAND ROAD, KADAGANCHI, KALABURGI - 585367, KARNATAKA, INDIA

has been independently assessed by QRO and is compliant with the requirement of:

ISO 14001:2015

# **Environmental Management System**

For the following scope of activities:

PROVIDING EDUCATION OF BUSINESS STUDIES, CHEMICAL SCIENCES, COMPUTER SCIENCES, EARTH SCIENCES, EDUCATION, ENGINEERING, HUMANITIES & LANGUAGES, LEGAL JURISPRUDENCE STUDIES, LIFE SCIENCES, MEDIA STUDIES, PHYSICAL SCIENCES AND SOCIAL & BEHAVIOURAL SCIENCES.

Date of Certification: 16th November 2023

st Surveillance Audit Due: 15th November 2024

2<sup>nd</sup> Surveillance Audit Due: 15th November 2025

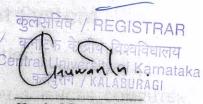
Certificate Expiry: 15th November 2026

Certificate Number: 305023111655E









Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit. (In case surveillance audit is not allowed to be conducted: this certificate shall be suspended / withdrawn).

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This is to certify that

### CENTRAL UNIVERSITY OF KARNATAKA

ALAND ROAD, KADAGANCHI, KALABURGI - 585367, KARNATAKA, INDIA

has been independently assessed by QRO and is compliant with the requirement of:

ISO 50001:2018

# **Energy Management Systems**

For the following scope of activities:

PROVIDING EDUCATION OF BUSINESS STUDIES, CHEMICAL SCIENCES, COMPUTER SCIENCES, EARTH SCIENCES, EDUCATION, ENGINEERING, HUMANITIES & LANGUAGES, LEGAL JURISPRUDENCE STUDIES, LIFE SCIENCES, MEDIA STUDIES, PHYSICAL SCIENCES AND SOCIAL & BEHAVIOURAL SCIENCES.

Date of Certification: 15th November 2023

Surveillance Audit Due: 14th November 2024

2<sup>nd</sup> Surveillance Audit Due: 14th November 2025

Certificate Expiry: 14th November 2026

Certificate Number: 305023111521EN









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### Central University of Karnataka, Kalaburagi

#### Minutes of the Meeting

Ref: CUK/ADMN-III/F-813/I/2022-23/1055 Dt. 21 Dec. 2023 to prepare policy documents for various quality parameters on the CUK campus.

Date: 19th January, 2024.

Venue: Office of the Chairman of the Committee

The following Committee members attended the meeting:

- Prof. N Sathyanarayana
   Dean, School of Life Sciences & Chairman of the Committee
- 2. Dr. R Krishna Chaitanya Associate Prof & Member of the Committee
- 3. Dr. M Lingadevaru Associate Prof & Member of the Committee
- 4. Dr. Arunkumar Patil Assistant Professor & Member of the Committee
- 5. Dr. Babu N Assistant Professor & Convener

The Administration Section has forwarded a request to prepare the policy for various Internal quality indicators of the University.

After due discussion and deliberations on the drafts prepared by committee members, the committee approved the enclosed eight policy documents for further processing.

The meeting concluded with thanking the Chair.

Dr. Babu N

Assistant Prof & Member, and

Convener of the Committee

Dr. M Lingadevaru

Associate Prof & Member

Dr. R Krishna Chaitanya

Associate Prof &

Member of the Committee

Dr. Arun Patil

Assistant Prof. &

Member of the Committee

Prof. N Sathyanarayana Dean, School of Life Sciences & Chairman of the Committee

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# Central University of Karnataka

(Established by an Act of the Parliament in 2009) Aland Road, Kadaganchi, Kalaburgi-585 367, Karnataka

# Water Quality Policy, including recycling and reuse of wastewater

Introduction: Access to clean and safe water is a fundamental human right, and it is essential to maintain the ecological balance of our planet. The water resources we have are limited, and the demand for it is increasing due to population growth and industrialization. Therefore, it is vital to ensure the efficient use of water resources, both in terms of quality and quantity. In this policy, we outline the measures that we will take to promote the efficient use of water resources in our community.

Policy Statement: Our policy aims to promote the efficient use of water resources by ensuring their quality and quantity. We will achieve this by:

#### **Water Quality**

- 1. Monitoring Water Quality: We will continuously monitor the quality of water resources to ensure they meet the relevant water quality standards set by the government (IS:10500:2012 standards).
- 2. Our focus will be to ensure bacteria-free water for all. This includes monitoring the quality of surface water, groundwater, and wastewater.
- 3. Bacteria-free water can be provided through chlorination of water.
- 4. A periodical review of frequent water testing shall be done to check bacteria-free water.
- 5. If we identify any water quality issues, we will take immediate corrective action.
- 6. For this One-time check of the Quality of water through NABL Accredited lab will give clear picture of water Quality & and future program

#### **Water Quantity**

- 1. Water Meter: Exploring the possibility of installation of a Water meter at each pumping point.
- 2. Efficient Water Use: We will promote the efficient use of water resources by encouraging our community to use water responsibly.
- 3. Awareness: This includes raising awareness of water conservation practices, promoting the use of water-efficient appliances, and encouraging our community to use recycled water for non-potable purposes. Posters for closing water tap shall be displayed.
- 4. Recycling and Reusing Wastewater: We recognize the importance of recycling and reusing wastewater to reduce the demand for freshwater resources. Therefore, we will promote the use of recycled water for non-potable purposes such as irrigation, industrial use, and toilet flushing. We will also explore opportunities to expand our wastewater treatment facilities to produce highquality recycled water.
- 5. Water Conservation: We will encourage our community to conserve water by promoting the use of rainwater harvesting systems, reducing leaks in water supply systems, and implementing waterefficient landscaping practices.

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- 6. Fund generation: By energy savings & thus water conservation, that fund shall be generated for improving the water supply efficiency. (Viz. purchase of water meter, changing of leaky pipelines & other better options.
- 7. Partnerships: We will work with other stakeholders, including local governments, water utilities, and non-governmental organizations, to promote the efficient use of water resources.
- 8. Education and Outreach: We will conduct outreach and education programs to raise awareness about the importance of water conservation and the benefits of using recycled water for nonpotable purposes. This includes working with Patients' family members, community organizations, and local media outlets to spread the message about the importance of water stewardship.
- 9. Greywater Reuse: We will encourage using greywater, wastewater from sources such as showers, sinks, and laundry machines, Kitchen for non-potable purposes such as irrigation and toilet flushing. This can help reduce the demand for freshwater resources and the amount of wastewater that needs to be treated and discharged.
- 10. Water Efficiency Audits: We will conduct water efficiency audits for our facilities and encourage our community to do the same. This can help identify areas where water is being wasted and recommend ways to reduce water consumption.
- 11. Emergency Preparedness: We will develop emergency preparedness plans to ensure that our community is prepared for water shortages or other water-related emergencies. This may include implementing temporary water restrictions, increasing our water storage capacity, and identifying alternative water sources such as groundwater or surface water.
- 12. Conclusion: In conclusion, this policy outlines our commitment to promoting the efficient use of water resources in our community. We recognize the importance of maintaining the quality and quantity of water resources for future generations, and we will work tirelessly to achieve this goal. By implementing the measures outlined in this policy, we can ensure that our community continues to thrive while safeguarding the environment for future generations.

Review: The policy shall be reviewed periodically by the fire safety committee. Based on the review, amendments may be proposed to improve the policy's effectiveness. The committee shall duly submit any amendment in the policy, and finally, the approving authority shall be the Vice Chancellor.

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# Central University of Karnataka

(Established by an Act of the Parliament in 2009) Aland Road, Kadaganchi, Kalaburgi-585 367, Karnataka

### Policy for ambient air quality in university campus

The policy for ambient air quality in a university campus should prioritize the health and well-being of students, faculty, staff, and visitors. The following measures could be taken to ensure a safe and healthy environment:

This policy has been drafted for maintaining Air Quality in the University campus.

- 1. Regular monitoring: Regular monitoring of air quality should be conducted in the campus to identify any potential sources of pollution, such as emissions from vehicles, construction activities, and industrial processes.
- 2. Pollution control measures: Pollution control measures should be implemented to reduce emissions from sources such as generators, boilers, and vehicles. These measures could include the use of cleaner fuels, installation of emission control devices, and promotion of green transportation modes such as cycling and walking.
- 3. Smoking ban: Smoking should be strictly prohibited in all areas of the campus, including outdoor spaces.
- 4. Green spaces: The campus should have ample green spaces with trees and plants to absorb pollutants and improve air quality.
- 5. Awareness campaigns: Awareness campaigns should be conducted to educate the campus community about the importance of air quality and ways to reduce pollution.
- 6. Collaboration with local authorities: The university should collaborate with local authorities to address broader environmental issues, such as air pollution from nearby industrial areas or traffic congestion.
- 7. Emergency response plan: An emergency response plan should be developed in case of sudden spikes in air pollution levels. The plan should outline steps to be taken to protect the health of the campus community, such as temporary closure of the campus or evacuation to safer locations.
- 8. Promote sustainable transportation: Encourage students, faculty, and staff to use public transportation, carpooling, cycling, or walking instead of driving alone. The university can offer incentives such as discounted public transportation passes or bike-sharing programs.
- 9. Reduce energy consumption: Implement energy-saving measures such as using energy-efficient lighting and appliances, and turning off lights and electronics when not in use. This can reduce emissions from power plants and improve air quality.
- 10. Improve indoor air quality: Regularly maintain and clean HVAC systems and ensure proper ventilation in buildings. This can help reduce indoor air pollution and prevent the spread of airborne illnesses.

Central University of Karnataka

- 11. **Reduce food waste:** Encourage sustainable practices in dining facilities by reducing food waste and composting food scraps. Decomposing organic waste produces methane, a potent greenhouse gas contributing to air pollution.
- 12. **Plant more trees:** Planting more can help absorb pollutants and improve air quality. The university can also encourage students and staff to participate in tree-planting initiatives.
- 13. **Switch to renewable energy:** The university can switch to renewable energy sources such as solar and wind power to reduce emissions from fossil fuels.
- 14. **Implement green building practices:** Incorporate green building practices such as using sustainable materials, installing efficient plumbing systems, and designing buildings with energy efficiency in mind. This can reduce the carbon footprint of the campus and improve air quality.

Overall, the policy for ambient air quality in a university campus should prioritize the health and safety of all members of the campus community and promote sustainable practices to reduce pollution.

**Review:** The policy shall be reviewed periodically by the Air Quality Management Committee. Based on the review, amendments may be proposed to improve the policy's effectiveness. The committee shall duly propose any amendment in the policy, and finally, the approving authority shall be the Vice Chancellor.

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# Central University of Karnataka

(Established by an Act of the Parliament in 2009) Aland Road, Kadaganchi, Kalaburgi-585 367, Karnataka

## Policy for preservation of Fauna on University campus

#### Introduction:

Fauna plays a crucial role in maintaining the ecological balance and enhancing the biodiversity of a university campus. As such, this policy aims to ensure the conservation, management, and sustainable development of the fauna on the university campus.

#### **Policy Statement:**

The university is committed to preserving and enhancing the fauna on its campus through the implementation of sustainable practices, the conservation of native species, and the promotion of biodiversity.

#### **Policy Goals:**

The goals of this policy are to:

- 1. Promote the conservation and management of the fauna on the university campus, including the conservation of native species and the promotion of biodiversity.
- 2. Implement sustainable practices in the management of fauna on campus.
- 3. Foster an appreciation of the natural environment among students, faculty, and staff.

#### **Policy Measures:**

To achieve the goals of this policy, the university will implement the following measures:

- 1. Habitat Conservation: The university will promote the conservation of native habitats on campus, including the restoration of natural habitats and the creation of new habitats where appropriate.
- 2. Biodiversity Promotion: The university will promote biodiversity on campus by maintaining a diverse range of fauna species and ecosystems. The university will also prioritize the creation of wildlife-friendly habitats, such as birdhouses, bat boxes, and bee hotels.
- 3. Sustainable Practices: The university will implement sustainable practices in the management of fauna on campus, such as reducing the use of pesticides and employing integrated pest management practices.
- 4. Campus Design: The university will ensure that all campus development projects are designed to be sustainable and maximize the benefits of the fauna on campus. The university will prioritize the use of native species in landscaping and development projects.

5. Education and Awareness: The university will promote an appreciation of the natural environment among students, faculty, and staff by offering educational programs and events related to fauna conservation and biodiversity.

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- Monitoring and Reporting: The university will periodically monitor the health and diversity of the fauna on campus and report on the status of the fauna to the relevant authorities and stakeholders.
- 7. Animal Welfare: The university will ensure that all interactions with wildlife on campus are conducted in a humane and responsible manner. The university will work with local animal welfare organizations and relevant authorities to ensure the welfare of wildlife on campus.
- 8. Management of invasive species: The university could implement a program to manage invasive species on campus. Invasive species can disrupt ecosystems and harm native wildlife, so it's important to manage them in a responsible and sustainable manner.
- Wildlife-friendly infrastructure: The university could design its infrastructure to be wildlifefriendly. For example, the university could install bird-friendly glass on buildings to reduce bird collisions or install special lighting to reduce the impact on nocturnal wildlife.
- 10. Collaboration with local conservation organizations: The university could collaborate with local conservation organizations to promote the conservation and management of fauna on campus. These organizations can provide expertise and resources to help the university implement its policy on fauna preservation.
- 11. Citizen science programs: The university could involve students, faculty, and staff in citizen science programs related to fauna conservation. Citizen science programs allow people to contribute to scientific research and monitoring efforts, which can help inform conservation efforts.
- 12. Promote sustainable land use practices: The university could promote sustainable land use practices on campus, such as reducing the amount of impervious surfaces and implementing green infrastructure. Sustainable land use practices can help support the health and diversity of fauna on campus.
- 13. Research and monitoring: The university could prioritize research and monitoring efforts related to the fauna on campus. This could include conducting surveys of wildlife populations and monitoring the impact of development projects on the local ecosystem.

#### Review:

The policy shall be reviewed periodically by the Biodiversity Committee. Based on the review, amendments may be proposed to improve the policy's effectiveness. Any amendment in the policy shall be duly proposed by the committee, and finally, the approving authority shall be the Vice Chancellor.

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# Central University of Karnataka

(Established by an Act of the Parliament in 2009) Aland Road, Kadaganchi, Kalaburgi-585 367, Karnataka

### **Policy on Flora for University Campus**

#### Introduction:

The flora on a university campus can significantly impact the aesthetic appeal of the campus, as well as the environmental sustainability of the university. As such, this policy aims to ensure the conservation, management, and sustainable development of the flora on the university campus.

#### **Policy Statement:**

The university is committed to preserving and enhancing the flora on its campus through the implementation of sustainable practices, the conservation of native species, and the promotion of biodiversity.

#### **Policy Goals:**

The goals of this policy are to:

- 1. Promote the conservation and management of the flora on the university campus, including the conservation of native species and the promotion of biodiversity.
- 2. Implement sustainable practices in the management of flora on campus.
- 3. Foster an appreciation of the natural environment among students, faculty, and staff.

#### **Policy Measures:**

To achieve the goals of this policy, the university will implement the following measures:

- 1. Native Species Conservation: The university will promote the conservation of native species and the restoration of natural habitats on campus. The university will prioritize the planting of native species in all landscaping and tree planting projects.
- 2. Biodiversity Promotion: The university will promote biodiversity on campus by maintaining a diverse range of plant species and ecosystems. The university will also prioritize the creation of pollinator-friendly habitats, such as wildflower meadows and gardens.
- 3. Sustainable Practices: The university will implement sustainable practices in the management of flora on campus, such as reducing the use of pesticides and fertilizers and employing integrated pest management practices.
- 4. Landscape Design: The university will ensure that all landscaping and tree planting projects are designed to be sustainable and maximize the benefits of the flora on campus. The university will prioritize the use of drought-tolerant and low-maintenance plant species.

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- Education and Awareness: The university will promote an appreciation of the natural environment among students, faculty, and staff by offering educational programs and events related to flora conservation and biodiversity.
- Monitoring and Reporting: The university will regularly monitor the health and diversity of the flora on campus and report on the status of the flora to the relevant authorities and stakeholders.
- 7. Use of sustainable landscaping practices: The university could consider using sustainable landscaping practices, such as using mulch or compost instead of synthetic fertilizers, and planting species that require less water and maintenance.
- 8. Composting: The university could implement a composting program to manage plant waste on campus. This could include composting leaves, grass clippings, and other organic matter from the flora on campus.
- 9. Rainwater harvesting: The university could consider implementing rainwater harvesting systems to collect rainwater for irrigation purposes. This could help reduce the amount of potable water used for irrigation and support the growth of the flora on campus.
- 10. Protection of existing flora: The university could develop policies and procedures to protect existing flora on campus, including trees, shrubs, and other plants. This could include measures such as limiting the use of heavy equipment near trees and protecting root zones.
- 11. Green roofs: The university could consider installing green roofs on campus buildings. Green roofs can help improve air quality, reduce urban heat island effects, and support the growth of a variety of plant species.
- 12. Collaborations with community organizations: The university could collaborate with community organizations, such as local environmental groups or conservation societies, to promote the conservation and management of flora on campus.
- 13. Involvement of students and faculty: The university could involve students and faculty in the implementation of the policy on flora. This could include opportunities for student research projects, involvement in planting and maintenance activities, and participation in educational programs related to flora conservation.

#### Review:

The policy shall be reviewed periodically by the empowered committee. Based on the review, amendments may be proposed to improve the policy's effectiveness. Any amendment in the policy shall be duly proposed by the committee, and finally, the approving authority shall be the Vice Chancellor.

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# Central University of Karnataka

(Established by an Act of the Parliament in 2009) Aland Road, Kadaganchi, Kalaburgi-585 367, Karnataka

### **Energy conservation policy for university**

#### Introduction:

Energy conservation is a crucial aspect of sustainable development, and universities have a significant role in promoting energy conservation practices. Universities consume a significant amount of energy in their day-to-day operations, and as such, have a responsibility to conserve energy and reduce their carbon footprint. This policy outlines the measures that the university will take to save energy and promote sustainable development.

#### **Policy Statement:**

The university is committed to promoting energy conservation and sustainable development by reducing its energy consumption, increasing energy efficiency, and promoting renewable energy sources. This policy applies to all university-owned buildings, facilities, and equipment.

#### **Policy Goals:**

The goals of this policy are to:

- 1. Reduce energy consumption across the university by implementing energy-efficient practices and technologies.
- 2. Promote the use of renewable energy sources to reduce the university's dependence on non-renewable energy sources.
- 3. Raise awareness about the importance of energy conservation and sustainable development among students, faculty, and staff.

#### **Policy Measures:**

To achieve the goals of this policy, the university will implement the following measures:

- Energy Audits: The university will conduct energy audits of all its buildings and facilities to identify
  areas where energy consumption can be reduced. The audits will be carried out by certified energy
  auditors.
- 2. Energy-efficient Practices: The university will implement energy-efficient practices such as turning off lights and equipment when not in use, using natural lighting and ventilation, and using energy-efficient appliances and equipment.
- 3. Energy-efficient Technologies: The university will install energy-efficient technologies such as LED lighting, smart thermostats, and energy-efficient HVAC systems in all its buildings and facilities.

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- 4. Renewable Energy Sources: The university will explore and promote the use of renewable energy sources such as solar and wind power. The university will install solar panels and wind turbines in its buildings and facilities wherever feasible.
- 5. Sustainable Transportation: The university will encourage sustainable transportation practices such as cycling, walking, and carpooling among its students, faculty, and staff.
- 6. Awareness-raising: The university will raise awareness about the importance of energy conservation and sustainable development through workshops, seminars, and other awareness-raising activities. The university will also provide training to its staff and students on energy-efficient practices.
- 7. Monitoring and Reporting: The university will monitor its energy consumption regularly and report its progress towards achieving its energy conservation goals to the relevant authorities and stakeholders.
- Energy-saving campaigns: The university could launch energy-saving campaigns to encourage students, faculty, and staff to reduce their energy consumption. For example, the university could organize competitions among students to see who can reduce their energy consumption the most.
- 9. Energy-efficient building design: The university could ensure that all new buildings and renovations are designed to be energy-efficient, with features such as efficient insulation, passive solar heating, and natural ventilation.
- 10. Green procurement: The university could prioritize purchasing energy-efficient products and equipment, and those made from sustainable materials. This could include appliances, computers, and office supplies.
- 11. Water conservation: The university could also promote water conservation measures, such as installing low-flow toilets and showerheads, fixing leaks promptly, and encouraging students and staff to turn off taps when not in use.
- 12. Campus-wide recycling: The university could implement a comprehensive recycling program across its campus, including collecting and recycling paper, cardboard, plastic, glass, and metal.
- 13. Green spaces: The university could also create green spaces on campus, such as gardens and green roofs, to absorb carbon dioxide and provide shade, which could help reduce the need for air conditioning.
- 14. Telecommuting: The university could encourage telecommuting and remote work where feasible, which could help reduce energy consumption associated with transportation.

#### Review:

The policy shall be reviewed periodically by the empowered committee. Based on the review, amendments may be proposed to improve the policy's effectiveness. Any amendment in the policy shall be duly proposed by the committee and finally approving authority shall be Vice Chancellor.

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