University of Mumbai
Kharepatan Panchakroshi Shikshan Prasarak Mandal, Kharepatan's
ARTS, COMMERCE AND SCIENCE COLLEGE, KHAREPATAN
(Affiliated to Mumbai University No. ICM / I / 558 / 2012 - 13)
At. Swatntrya Sainik Guruvariya Veer Shankarrao G. Pendharkar Educational Campus, Kharepatan
Tal. Kankavli, Dist. Sindhudurg - 416 703 - (MS) India

Dr. Atmaram Deu Kamble
Principal

O. W. No.: Date:

INTERNAL QUALITY AND ASURANCE CELL (IQAC)

GREEN, ENERGY AND ENVIRONMENT (EEG) AUDIT

ACTION TAKEN REPORT

Sr. No.	Suggestions / Recommendations	Action Taken
1	Replace All existing tube lights with LED tubes.	Replaced all tube lights with LED tubes across campus.
2	Preserve electricity, water, and other utility bills.	Initiated regular documentation and preservation of all utility bills.
3	Provide safety equipment like gloves and shoes for workers.	Distributed safety equipment (gloves, shoes, etc.) to all workers.
4	Clean luminaries, fans, and ACs regularly to increase efficiency.	Established a maintenance schedule for regular cleaning of luminaries, fans, and ACs.
5	Prepare and observe SOPs for the maintenance of equipment.	Developed and implemented Standard Operating Procedures (SOPs) for equipment maintenance.
6	Conduct annual tests: Neutral Current, Load Unbalance, Earth Resistance, Insulation Resistance, Illumination, Power Quality, Thermography.	Conducted the recommended tests and documented the results.

Co-ordinator
Internal Quality Assurance Cell (IQAC)
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7	Use environment-friendly cleaning agents to clean the premises.	Switched to environmentally friendly cleaning agents for campus maintenance.
8	Emergency evacuation plan to be prepared and displayed.	Prepared and displayed emergency evacuation plans at key locations.
9	Assign responsibility for maintaining data regarding audits and management.	Appointed a designated person to manage and maintain audit data and related records.
10	Undergo energy and green audit every two years.	Scheduled the next Energy and Green Audit for two years.
11	Available medical officer or empanelled nearby physician for emergency support.	Arranged a tie-up with a nearby physician for emergency medical support.
12	Undertake electrical safety audit.	Completed an electrical safety audit and addressed any issues found.
13	Designate people for disaster management training.	Identified and sent staff for disaster management training.
14	Avoid draft printing, use email/WhatsApp for communication.	Minimized printing, using email and WhatsApp for most communication.
15	Arrange exhibitions and identification programs for students and locals on medicinal plants.	Organized exhibitions to educate students and locals about medicinal plants.
16	Start a planting drive with students outside the campus.	Initiated a planting drive involving students outside the campus.
17	Gift small plants or seeds/seed-balls to students for plantation at their premises.	Distributed plants and seed-balls to students, encouraging them to plant in their native places.
18	Plant and maintain at least 5 full-grown trees per person.	Planted and maintained 5 full-grown trees per staff and student member.
19	Increase tree diversity by planting Tulsi, Camphora, etc. for a pollution-free atmosphere.	Started planting diverse species such as Tulsi and Camphora to enhance air quality.

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20	Observe and maintain quality of RO output; conduct water testing every season.	Conducted seasonal water testing and set up SOPs for regular RO system maintenance.
21	Quantify the output of the Rainwater Harvesting System and increase capacity.	Measured current rainwater harvesting output and began expanding capacity to meet demand.
22	Maintain proper level and cleanliness of windows, ensure no obstacles; clean luminaries once a week.	Regular cleaning of windows and luminaries has been scheduled, and obstacles were removed from windows.

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6. Recommendations

PART A GENERAL

1. It is recommended that institute shall prepare and maintain Electrical SLD.
2. It is recommended that institute shall prepare and maintain Details Electrical Control Panels.
3. It is recommended that institute shall prepare and maintain Details of Transformer.
4. It is recommended that institute shall prepare and maintain Registers of Records
5. It is recommended that institute shall prepare and maintain Nameplate Data of all equipment
6. It is recommended that institute shall prepare and maintain Manuals of all equipment
7. It is recommended that institute shall preserve Electricity, Water and other utility bills.
8. It is recommended that institute shall prepare and maintain Log of Electrical works/accidents
9. It is recommended that institute shall provide safety equipments like Gloves, Shoes, Etc. for the workers.
10. It is recommended that Emergency evacuation plan to be prepared and displayed at centre place.
11. It is recommended that institute to assign anybody responsible to maintain data regarding audits, management and recommendations since It is found that institute is lagging in data keeping.
12. It is recommended that institute shall undergo Energy and Green Audit Every two years.

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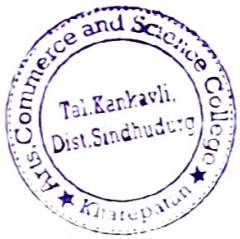
PART B ENERGY AUDIT

1. It is recommended that to Replace All existing Tubelights with LED Tubes.
2. It is recommended that to prepare feasibility and plant to replace regular fans with BLDC fans.
3. It is recommended that to undergo detail energy audit considering following points
    a. All the connected loads in each room has to be listed down
    b. All rooms working time has to be noted down.
    c. Any extra activity such as program/function/gathering, Etc. has to be recorded in terms of connected load, extra load, running time.
    d. Extra consumption in particular month and reason for the same.
    e. Manual and remote monitoring of consumption.
4. It is recommended that to Clean Luminaries, Fans, ACs regularly to increase efficiency.
5. It is recommended that Prepare and observe SOPs for maintenance of equipments.
6. It is recommended that Following tests are to be conducted at-least annually
    - Neutral Current
    - Load Unbalance
    - Earth Resistance
    - Insulation Resistance
    - Illumination
    - Power Quality
    - Thermography



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PART C GREEN AUDIT

1. It is recommended that institute shall use environment friendly cleaning agents to clean the premises.
2. It is recommended that Institute may implement biogas plant from sewage waste.
3. It is recommended that Institute practices waste management but efforts are scattered, institute shall implement Target oriented waste management system.
4. It is recommended that Institute to install Energy & environment monitoring systems
5. It is recommended that institute shall implement Target oriented Energy management system.
6. It is recommended that institute shall implement Sensor based lights in passage.
7. It is recommended that institute shall have available Medical officer or to be empanelled nearby physician for emergency support.
8. It is recommended that institute shall undertake electrical safety Audit.
9. It is recommended that institute shall designate people and they shall undergo Disaster Management Training.
10. It is recommended that Avoid Draft printing, use email/Whatsapp maximum.
11. It is recommended that institute shall prepare observe and undergo Code of conducts and Standard Operating Procedures for Energy, Green and Environment management system.
12. It is recommended that institute shall arrange Exhibitions and identification programs for students and locals to understand medicinal plants.
13. It is recommended that institute shall start a planting drive with students outside campus.
14. It is recommended that institute shall gift small plants or seeds/seed-balls to students leaving or going to native place and encourage them to plant at their own premises.

PART D ENVIRONMENT AUDIT

i. It is recommended that institute shall plant and Maintain at-least 5 Full grown trees per person.

ii. It is recommended that institute shall consider the scope to increase in Tree diversity; Plants like Tulsi, Camphora,Etc. can be planted for getting more pollution-free atmosphere. Also to increase the quality more greenery can be implemented. This can be done through gardening in empty places, terrace gardening and Green walls.

iii. It is recommended that institute shall observe Quality from RO output. To maintain the quality, water testing has to be done in every season (after every four months). A standard operating process has to be defined, documented and observed for tank and pipeline cleaning and maintenance.

iv. It is recommended that institute shall Quantify the output of Rain Water Harvesting System and increase the capacity to mitigate shortfall.

v. It is recommended that institute shall Install Meters to measure actual demand and usage of water.

vi. It is recommended that institute shall maintain accurate level, windows to be cleaned regularly, obstacles on windows to be moved, Proper capacity and efficiency of luminaries to be used and luminaries also to be cleaned once in a week.