

GREEN & ENVIRONMENT AUDIT REPORT

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Muthapudupet, Avadi, Chennai - 600055



JANUARY 2020

IGNITE ENGINEERING

CHENNAI




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TABLE OF CONTENTS

Topic	Page No.
Executive Summary	1
Introduction	1
About the College	2
Objectives of the study	3
Benefits of Green Audit	3
Methodology	4
Observation and Recommendations	6
Water Use	6
Waste Management	9
E Waste Management	17
Green Area Management	20
Sanitary incinerator	27
Green initiatives and best practices	29
Environmental Monitoring	30
Conclusions	32
Acknowledgement	33
Annexure- I	34
Annexure-II	35
Annexure-III	36
Annexure-IV	37




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Executive Summary

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institute which will pave way for sustainable development.

AMSCE believes that there is an urgent need to address these fundamental environmental problems and reverse the trends. 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.

It works on the several facets of ‘Green Campus’ including Water Conservation, Tree Plantation, Waste Management, Paperless Work, and Alternative Energy. With this in mind, the specific objectives of the audit was to evaluate the adequacy of the management control framework of environment sustainability as well as the degree to which the Departments are in compliance with the applicable regulations, policies and standards. It can make a tremendous impact on student health and learning college operational costs and the environment. The criteria, methods and recommendations used in the audit were based on the identified risks.

Introduction

Green audit was initiated with the beginning of 1970s with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. It is known as the systematic identification, quantification, recording, reporting and analysis of components of environmental diversity.

It is the duty of organizations to carry out the Green Audits of their ongoing processes for various reasons such as; to make sure whether they are performing in accordance with relevant rules and regulations, to improve the procedures and ability of materials, to analyze the potential duties and to determine a way which can lower the cost and add to the revenue.

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Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade a, Grade B or Grade C according to the scores assigned at the time of accreditation. The intention of organizing Green Audit is to upgrade the environment condition in and around the institutes, colleges, companies and other organizations. It is carried out with the aid of performing tasks like waste management, energy saving and others to turn into a better environmental friendly institute.

About the College

AALIM Muhammed Salegh College of Engineering is a self-financing, Muslim minority Institution affiliated to Anna University and accredited with ISO 9001 – 2015 Certification for Quality Management System. It has been recognized as a premier institution of higher learning for job-oriented courses.



The campus is spread over an area of 10 acres of land with a huge built-up area. The college offers 9 Under Graduate Courses with 4 courses with NBA accreditation. There are 948 students and 90 teaching faculty in the college which is promising to grow rapidly.



The College offers job-oriented courses, extra-curricular activities and technologically advanced facilities accessible to the faculty, the students and the support staff. Here, each individual is encouraged to step beyond the confines of academic and administrative disciplines to explore and intervene in the larger interests of the AMSCE community that thrives on participation and the desire to venture into newer vistas.

Objectives of the Study

The main objective of the green audit is to promote the Environment Management and Conservation in the College Campus. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

The primary objectives of conducting a Green Audit are:

- **Raise Environmental Awareness:** Educate students about pressing environmental issues and the importance of sustainability.
- **Protect Human Health:** Evaluate campus resource usage patterns and their impact on the environment to mitigate health risks.
- **Establish Baseline Data:** Create a reference point for future sustainability efforts, preventing severe environmental disruptions that could be costly to address.
- **Assess Compliance:** Provide a comprehensive report on the campus's adherence to environmental regulations and standards.

Benefits of green audit

- **Enhanced Environmental Awareness:** Educates students and staff about sustainability practices and environmental impact.
- **Improved Resource Efficiency:** Identifies opportunities to reduce waste and optimize the use of resources like water and energy.
- **Cost Savings:** Helps in identifying cost-effective solutions that can lower operational expenses.
- **Regulatory Compliance:** Ensures adherence to environmental regulations and



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standards, reducing the risk of legal issues.

- **Health and Safety:** Mitigates environmental hazards that can affect the health and well-being of students and staff.
- **Sustainable Practices:** Promotes long-term sustainability through informed decision-making and proactive management.
- **Positive Reputation:** Enhances the institution's image as a leader in environmental stewardship, attracting prospective students and partners.

Methodology

To conduct the Green Audit, the methodology was designed to ensure a thorough and effective evaluation of the campus's environmental practices. It involved a multi-faceted approach, incorporating the following components:

Questionnaire Development: Creating detailed questionnaires to gather comprehensive information from various stakeholders, including students, staff, and facilities management. These questionnaires were designed to assess perceptions, practices, and areas needing improvement.

Physical Campus Inspection: Performing a detailed on-site inspection of the campus to observe and document current environmental practices and infrastructure. This included examining facilities, systems, and the overall implementation of sustainability measures.

Documentation Review: Reviewing existing records, policies, and reports related to environmental management. This involved analyzing procedures, compliance records, and past audit findings to evaluate the effectiveness and adherence to environmental standards.

Interviews: Conducting interviews with key personnel such as facility managers, sustainability coordinators, and other relevant staff members. These interviews aimed to obtain insights into operational practices, challenges faced, and potential areas for improvement.

Data Analysis and Measurement: Collecting and analyzing data on various environmental metrics, such as resource usage (water, energy), waste generation, and green space management. Precise measurements and statistical analysis were used to assess the efficiency and impact of current practices.



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Recommendations: Formulating actionable recommendations based on the findings from the inspections, reviews, interviews, and data analysis. These recommendations were intended to enhance environmental performance, improve sustainability practices, and address any identified issues.

The audit comprehensively covered the following areas to summarize the current status of environmental management on campus:

- **Water Management:** Evaluating practices related to water usage, conservation efforts, and management of water resources.
- **Energy Conservation:** Assessing energy consumption patterns, efficiency measures, and initiatives to reduce energy use.
- **Waste Management:** Reviewing waste generation, segregation, recycling practices, and overall waste reduction strategies.
- **E-Waste Management:** Examining the handling, disposal, and recycling of electronic waste.
- **Green Area Management:** Evaluating the maintenance and development of green spaces and their contribution to the campus environment.
- **Environmental Monitoring:** Analyzing systems in place for monitoring environmental performance and compliance with sustainability goals.

This thorough approach ensured a holistic assessment of the campus's environmental practices, providing a clear understanding of its current state and identifying opportunities for improvement.



Observations and Recommendations

Water Use

The study observed that the main source of water for the institute is received from two bore wells. Water is used for drinking purpose, toilets and gardening. The waste water from the RO water purifier is used for gardening purpose. During the survey, no loss of water is observed, neither by any leakages, or by over flow of water from overhead tanks. The data collected from all the departments is examined and verified. On an average the total use of water in the college is 25,000L/day, which include 20,000 L/day for domestic, 3,000 L/day for gardening purposes and 2,000 L/day for drinking purpose.





Recharge bore wells on campus

Rainwater Harvesting

On the campus, rainwater harvesting units are designed to collect rainwater from various surfaces, including rooftops and paved areas. The harvested rainwater is directed through a network of pipes and channels to a designated recharge well located within the campus grounds.

This process not only helps in managing stormwater runoff but also plays a crucial role in recharging the groundwater levels.

By capturing and storing rainwater, the system reduces the demand on municipal water supplies, promotes the efficient use of water resources, and helps mitigate the risk of flooding.

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Recharge pit on campus grounds



Waste Management

This indicator evaluates the production and disposal of various types of waste, including paper, food, plastic, biodegradable materials, construction debris, glass, and dust. Effective management of solid waste is crucial, as it often comprises materials that could be repurposed through recycling, repair, or reuse. Improper handling of solid waste poses significant risks to health and the environment.

The survey assessed the volume, types, and current management practices of solid waste generated on campus. It aimed to identify areas where waste reduction strategies could be implemented and to enhance overall waste management practices. Addressing these aspects is essential for minimizing environmental impact and improving resource efficiency.

Observations

Liquid waste management

The college is equipped with a central Reverse Osmosis (RO) plant that has a capacity of 500 litres per hour. This state-of-the-art facility plays a crucial role in ensuring a consistent supply of purified water throughout the campus. The RO system is strategically installed to deliver high-quality drinking water to all academic and administrative blocks, making it readily accessible to both students and staff.

In addition to providing potable water for daily consumption, the RO plant supports water needs in the college's mess and canteen. This ensures that all food preparation activities are carried out using safe, clean water, contributing to overall hygiene and health standards.

Key aspects of the RO plant include:

- **Accessibility:** The purified water is distributed across various campus buildings, ensuring easy access for all users.
- **Safety and Compliance:** The system adheres to relevant health and



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safety standards, providing water that meets quality requirements for drinking and food preparation.

- **Maintenance and Monitoring:** Regular maintenance checks and quality monitoring are conducted to ensure the plant operates efficiently and continues to provide safe drinking water.
- **Sustainability:** The RO plant is part of the college’s broader commitment to sustainability and resource management, contributing to reduced reliance on bottled water and promoting eco-friendly practices.

Overall, the RO plant is an integral component of the college’s infrastructure, supporting both the health and convenience of its community while upholding high standards of water quality and safety.



RO Plant Installed in the campus



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Purified Water inside the campus for students



Recommendations

- Consider installing a Sewage Treatment Plant (STP) to manage wastewater generated on campus effectively. An STP will aid in treating and recycling wastewater, thereby reducing environmental impact and supporting sustainable water management practices.
- **Overflow Management:** Establish a robust monitoring system to detect and control overflow incidents. Implement regular inspection routines and emergency response drills to ensure swift action and minimize potential damage.
- **Water and Energy Efficiency:** Implement strategies to reduce water and energy consumption during the reverse osmosis process. Ensure that all associated equipment is maintained in optimal condition through scheduled servicing, and explore energy-efficient technologies and water-saving practices to further enhance efficiency.
- **Eco-Friendly Cleaning Products:** Adopt cleaning products that are biodegradable and non-toxic to minimize their environmental impact. Ensure that these products are used consistently across all cleaning operations, even if this requires exceeding current Control of Substances Hazardous to Health (COSHH) regulations. Consider sourcing products with eco-certifications or green labels to verify their environmental credentials.
- **Sustainable Gardening Practices:** Utilize advanced irrigation systems, such as drip or sprinkler systems, to optimize water usage in garden areas. Implement rainwater harvesting for irrigation to further reduce reliance on potable water. Additionally, consider incorporating native plants that require less water and maintenance, contributing to overall sustainability.
- **Regular Training and Awareness:** Provide ongoing training for staff on best practices for water and energy conservation, the use of eco-friendly products, and proper irrigation techniques. Foster a culture of environmental responsibility through workshops and awareness campaigns to ensure adherence to these recommendations.



Solid Waste Management

The primary sources of solid waste on the campus include tree droppings and lawn maintenance debris. To effectively manage and segregate waste at the source, the college has implemented a waste segregation system. Separate dustbins are provided for biodegradable and plastic waste, ensuring proper disposal and recycling.

Paper Usage and Recycling: To minimize paper consumption, single-sided used papers are repurposed for writing and printing across all departments. Additionally, important and confidential documents are sent for pulping and recycling after their preservation period has expired, supporting efficient resource use and waste reduction.

Chemical Waste Management: Potentially hazardous chemical waste generated in laboratories is carefully segregated to ensure safe handling and disposal. This practice is critical in maintaining a safe environment and complying with regulatory requirements.

Other Waste Management Practices:

- **Plastic Waste:** The generation of plastic waste is minimal, with only approximately 0.1 kg per day produced by various departments, offices, and gardens.
- **Metal and Wooden Waste:** Metal and wooden waste are collected and sent to authorized scrap agents for proper processing and recycling.
- **Glass Bottles:** Glass bottles are reused within laboratories, reducing the need for new glassware and minimizing waste.
-



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Waste Collection Infrastructure: The college has placed distinct bins across the campus for the collection of biodegradable and non-biodegradable waste. This infrastructure supports effective waste segregation and management, contributing to the college’s commitment to sustainability and environmental responsibility.



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Separate Bins for Degradable & Non Bio Degradable waste



Plastic free campus awareness

This comprehensive approach to waste management demonstrates the college's dedication to efficient resource use, environmental protection, and regulatory compliance.



Recommendations

- **Minimize Classroom and Staff Room Waste:** Implement strategies to reduce the amount of waste generated from classrooms and staff rooms. Encourage practices such as digital communication and minimize single-use items to decrease overall waste production.
- **Maximize Recycling Facility Utilization:** Fully utilize the recycling facilities provided by City Municipality and private suppliers. Ensure all recyclable waste is directed to these facilities to enhance resource recovery and reduce landfill contributions.
- **Improve Collection Points for Recyclable Waste:** Establish sufficient, easily accessible, and clearly marked collection points for recyclable waste across the campus. Assign clear responsibility for recycling management to ensure effective and consistent waste separation and disposal.
- **Provide Solid Waste Management Training:** Implement comprehensive training programs for all staff involved in gardening and sweeping work. This training should cover best practices for waste segregation, handling, and disposal to ensure effective waste management and compliance with environmental standards.



E-waste Management

E-waste is a consumer and business electronic equipment that is near or at the end of its useful life. This waste makes up about 5% of all municipal solid waste worldwide. It is hazardous than other waste because electronic components contain cadmium, lead, mercury, and Polychlorinated biphenyls (PCBs) that can damage human health and the environment.

Observations

The college has established several practices to manage e-waste effectively. Laser printer cartridges are refilled by external service providers, which ensures that the refilling process is handled off-campus. To promote awareness and compliance with e-waste management practices, the administration conducts regular awareness programs across various departments. E-waste and defective items from computer laboratories are stored properly to ensure safe handling and mitigate environmental impact.

In addition, dismantled hardware from personal computers is utilized in the PC troubleshooting lab, where it supports practical courses for B.E. (CSE) students. This approach not only extends the lifecycle of electronic components but also provides valuable hands-on experience for students.

Electronic spare parts that are no longer needed are promptly sold for reuse, contributing to resource efficiency. Any minimal amount of e-waste that remains after reuse is collected and sent to authorized recyclers at specific intervals, ensuring responsible disposal and adherence to recycling standards.



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E-Waste collection point on campus

Recommendations

- **Optimize Cartridge Refilling Process:** Regularly review and assess the external refilling services for laser printer cartridges to ensure they meet environmental and quality standards. Consider establishing preferred vendor agreements to ensure consistency and reliability.
- **Expand Awareness Programs:** Enhance the current awareness programs by including more comprehensive training on e-waste management for all staff and faculty. Include topics on the environmental impact of e-waste and best practices for disposal and recycling.
- **Strengthen E-Waste Storage Practices:** Introduce a formalized system for monitoring the storage conditions of e-waste and defective items. Ensure that storage areas are secure and comply with safety regulations to prevent potential hazards.
- **Enhance Utilization of Dismantled Hardware:** Explore additional ways to utilize dismantled hardware in educational programs beyond the PC troubleshooting lab. This could include creating learning modules or workshops that focus on electronics repair and maintenance.
- **Improve Recycling Efficiency:** Expand partnerships with authorized recyclers and waste management companies to ensure that all e-waste, including residual materials, is processed efficiently. Regularly review and optimize the recycling schedule to minimize delays in disposal.
- **Improved maintenance of comprehensive records:** Develop a robust system for documenting the handling, reuse, and recycling of e-waste. Regularly report these activities to campus stakeholders to enhance transparency and accountability.
- **Implement E-Waste Reduction Strategies:** Introduce initiatives to reduce the generation of e-waste, such as encouraging the use of energy-efficient equipment and exploring opportunities for extending the lifecycle of existing electronics.



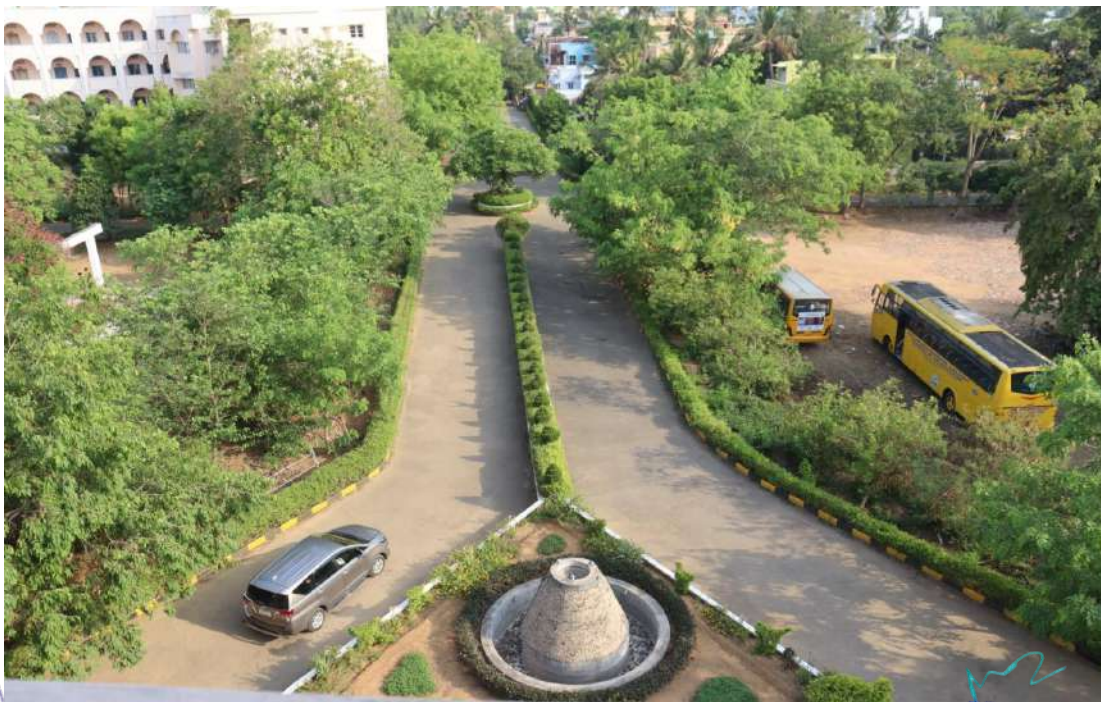
Green Area Management

Green area management focuses on maintaining and enhancing the campus's natural landscape, including the health and sustainability of plants and green spaces. It ensures that campus buildings and surroundings adhere to green standards, aligning with the institution's Environmental Policy. This management is supported by ongoing environmental awareness programs that promote sustainable practices and reinforce the policy's enforcement and periodic review.

Observations

The campus is situated near a diverse range of tree species, contributing to local biodiversity. The college actively promotes environmental sustainability through various tree plantation initiatives organized by the National Service Scheme (NSS) unit.

These programs are conducted on campus, fostering an eco-friendly environment and enhancing air quality by increasing the availability of pure oxygen. The tree plantation efforts include a variety of indigenous species, including ornamental and medicinal plants, which help raise environmental awareness and support local ecological balance.



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Green Belt Across The campus



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Green Area Management Inside The campus



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Green Belt Across The campus



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World Environment Day

Every June 5th, AMSCE celebrates World Environment Day with a range of activities aimed at raising awareness about environmental issues. On this day, the college organizes various programs focused on the United Nations Decade themes and other critical topics related to environmental conservation and sustainable living. These initiatives are designed to engage the college community and promote a deeper understanding of environmental challenges and solutions.



World Environment Day Celebrated Inside The campus



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Student & Faculty Involvement in tree Plantation



Sanitary Napkin Incinerator

To educate and create awareness of use of Sanitary Napkins and provide easy access to Sanitary Napkins by installation Simple Vending Machines in our girls toilet so that Girls/Women get habituated to use this Sanitary Napkins for their better health care. Secondly, to solve the problem of sanitary napkin disposal by installing incinerators which shall reduce spread of infection due to unhygienic disposal of sanitary napkins, reduce environmental pollution due to non-biodegradable sanitary napkins and reduce clogging of public drainage system due to spongy nature of napkins.



Sanitary Napkin Incinerator inside The Campus

Recommendations

- Review periodically the list of trees planted in the garden, allot numbers to the trees and keep records. Assign scientific names to the trees.
- Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service.
- Create awareness of environmental sustainability and take actions to ensure environmental sustainability.
- Establish a College Environmental Committee that will hold responsibility for the enactment, enforcement and review of the Environmental Policy. The
- Environmental Committee shall be the source of advice and guidance to staff and students on how to implement this Policy.
- Ensure that an audit is conducted annually and action is taken on the basis of audit report, recommendation and findings.
- Indoor plantation to inculcate interest in students, Bonsai can be planted in corridors to bond a relation with nature.
- Green library should be established.
- Establish Miyawaki Forest inside the college campus.



Green Initiatives and Best Practices

The campus has implemented several notable green initiatives and environmental practices aimed at promoting sustainability and environmental stewardship. Key measures include:

- **Rainwater Harvesting:** Rainwater harvesting pits have been strategically constructed to enhance the local groundwater table.
- **Solar Power:** A solar plant has been installed to partially meet the campus’s power requirements, reducing reliance on conventional energy sources.
- **Energy Conservation:** Approximately 60% of CFL lights have been replaced with LED lights to improve energy efficiency. Additionally, older fans have been replaced with high-efficiency models.
- **Paper Recycling:** An authorized paper recycling vendor is engaged to manage the substantial paper waste generated on campus.
- **Organic Cultivation:** The campus has established an organic cultivation program to promote sustainable agricultural practices.
- **World Environment Day:** The college observes World Environment Day with events designed to raise environmental awareness among students and staff.
- **Vehicle Movement Restrictions:** Vehicle movement within the campus is restricted to reduce pollution and congestion. Designated parking areas are provided, but vehicular traffic inside the campus is discouraged.
- **Awareness Campaigns:** Posters and campaigns on resource conservation, sanitation, and hygiene are prominently displayed to foster good practices among the campus community.
- **Plastic-Free Zone:** The campus strictly adheres to a plastic-free policy, encouraging the use of alternatives to reduce plastic waste.

These initiatives collectively contribute to the campus’s commitment to environmental sustainability and responsible resource management.



Environmental Monitoring

As part of green audit of campus, the Green Audit Assessment Team has carried out the environmental monitoring of campus. This includes Illumination, Noise level, ventilation and indoor Air quality of the class rooms. It was observed that Illumination and Ventilation is adequate considering natural light and air velocity present. Noise level in the campus is well below the limit.

The following surveys were conducted:

1. Ambient air quality by NABL approved air sampler
2. Lux monitoring
3. Noise monitoring
4. CO₂ Monitoring



Ambient Air Quality Monitoring

Monitoring ambient air quality on the college campus plays a crucial role in developing effective strategies for air purification and enhancing overall safety. Regular air quality assessments not only contribute to creating a healthier environment but also build trust among parents and stakeholders.

By demonstrating a commitment to maintaining high air quality standards, the administration underscores its dedication to the well-being of both students and staff, thereby reinforcing confidence in its environmental stewardship and safety measures.

Lux & Noise Monitoring

Illumination is a critical environmental factor influencing classroom effectiveness and student performance. Research has shown that appropriate lighting settings can significantly impact students' academic outcomes. Therefore, monitoring lux levels is essential to ensure optimal lighting conditions that promote visual comfort and support effective learning environments.

Similarly, noise exposure in campus settings must be carefully assessed to determine its potential impact on both student learning and staff productivity. Excessive noise can interfere with educational activities and may pose risks to health and well-being. Regular monitoring of noise levels is necessary to identify and address any issues that could compromise the campus environment and its functionality.

CO₂ Monitoring

Monitoring CO₂ levels in college classrooms offers a direct measure of ventilation effectiveness, specifically the cubic feet per minute (CFM) per person. This ongoing assessment ensures that the ventilation rates meet code requirements and maintain a healthy indoor environment.

It is crucial to keep CO₂ concentrations within acceptable limits, typically ranging from 400 to 2,000 ppm, to prevent levels from becoming a contaminant or pollutant. These measurements should adhere to ASHRAE standards to ensure compliance and optimal air quality in building spaces.



Conclusion

The green audit conducted provides a comprehensive assessment of the college's environmental practices and highlights areas for potential improvement in the pursuit of a more sustainable campus. This report, derived from site observations and information provided by the campus, reveals that AMSCE has made commendable strides in adopting eco-friendly initiatives across various domains, including energy, water conservation, solid waste management, sanitation, and green cover.

The college, despite being primarily an engineering institution, demonstrates a significant commitment to environmental research and sustainability, as evidenced by both faculty and student involvement. Noteworthy achievements include the installation of water recycling plants, the adoption of a paperless work system, and the implementation of solar plants. These initiatives underscore the college's dedication to reducing its environmental footprint and fostering a greener campus.

Furthermore, the administration's efforts in promoting environmental awareness through various programs further affirm the institution's commitment to sustainability. To enhance these efforts, a few recommendations have been proposed, particularly focusing on advanced waste management and reduction techniques. By addressing these recommendations, SRCE can continue to advance its green campus initiatives, contributing to a more sustainable environment and supporting broader community development goals.



Acknowledgement

We are grateful to the management and committee members of Aalim Muhammed Salegh College of Engineering to award this prestigious project on green auditing. Further we sincerely thank the college staff for providing us the necessary facilities and co-operation during the audit. This ample co-operation helped us a lot in making this audit possible and successful.

FOR IGNITE ENGINEERING

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9001:2015



ILLUMINATION MONITORING

Report No	IES-NO-IN-20-325-2020	Report Date:	09.01.2020
Customer Name & Address M/s. Aalim Muhammed saleggh college of Engineering, Avadi Chennai-55	Sample of Reference No:	IES-NO-IN-20-087-2020	
	Sample Description:	Light	
	Monitoring By:	Laboratory	
	Monitoring Date:	02.01.2020	
	Data Received On:	02.01.2020	
	Sampling Method:	IS 3646 (part1):1992 (Reaffirmed 2003)	
	Monitoring unit:	Lux	

S.no	Name of the Location	Monitoring Distance In m	Monitoring Time	Day Time (6.00 a.m -10.00 p.m)		
				Minimum	Maximum	L Equivalent
1.	Admin Block	0.9	11 AM –12PM	333	427	409
2.	Library	0.9	11 AM –12PM	224	236	238
3.	Canteen	0.9	11 AM –12PM	302	367	318
4.	Class Room-01	0.9	11 AM –12PM	401	454	213
5.	Class Room-02	0.9	11 AM –12PM	416	447	431
Permissible Limit For Light as Per The Factories Rules, 1950				Maximum 65		

<-----End of Report----->

NOTES:

The above Location Light levels are fulfill the necessities of Factories Rules 1950 standard.

Report Confirmed by

(Handwritten Signature)



FOR IGNITE ENVIRONMENTAL SERVICES

(Handwritten Signature)
Authorized Signatory



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NOISE MONITORING

Report No	EL-NO-NE-20-122-2020	Report Date:	09.01.2020
Customer Name & Address M/s. Aalim Muhammed salegh college of Engineering, Avadi Chennai-55	Sample of Reference No:	IES-NO-IN-22-088-2020	
	Sample Description:	Light	
	Monitoring By:	Laboratory	
	Monitoring Date:	02.01.2020	
	Data received On:	02.01.2020	
	Sampling Method:	IS:9989- 1981 (Reaffirmed 2001)	
	Monitoring unit:	Db (A)	

S.no	Name of the Location	Monitoring Distance in m	Monitoring Time	Day Time (6.00 a.m -10.00 p.m)		
				Minimum	Maximum	L Equivalent
1.	Admin Block	Site	11 AM -12PM	54.9	59.7	57.3
2.	Library	Site	11 AM -12PM	58.9	65.2	61.1
3.	Canteen	Site	11 AM -12PM	56.0	55.0	55.6
4.	Class Room-1	Site	11 AM -12PM	51.2	61.5	60.0
5.	Class Room-11	Site	11 AM -12PM	58.1	62.3	56.1
Permissible Limit For Noise as Per The Factories Rules 1950				Maximum 90.0		

<-----End of Report----->

NOTES:

The sound levels tested in the above locations are within the prescribed limits of Factories rules 1950 Standard Limits

Report Confirmed by

(Handwritten Signature)



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9001:2015



AMBIENT AIR MONITORING

Report No	IES-NO-AR-72-102-2020	Report Date:	09.01.2020
Customer Name & Address	M/s Aalim Muhammed salegah college of Engineering, Avadi Chennai-55	Sample Reference No:	IES-NO-AR-72-60-2020
		Sample Description:	Ambient Air
		Sample Drawn by:	Laboratory
		Sample Collected Date:	02.01.2020
		Qty of sample Received:	Filter Paper(2nos) & Approx 25ml Solution(4nos)
		Sample Received On:	02.01.2020
		Test Commenced On:	03.01.2020
		Test Completed On:	07.01.2020
		Sampling Method:	IES-SOP-ARS-01 to 11
		Sample Mark:	Near to Main block

S.No	Name of the Test	Test Method	Units	Results	Max. Annual Average Limits Of NAAQs
1.	Ammonia (as NH ₃)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m ³	<5.0	100
2.	Arsenic (as As)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m ³	<0.1	6.0
3.	Benzene (as C ₆ H ₆)	IS 5182 (Part 11): 2006 (Reaffirmed 2017)	µg/m ³	<0.5	5.0
4.	Benza (α) Pyrene (as C ₂₀ H ₁₂)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m ³	<0.5	1.0
5.	Carbon Monoxide (as CO)	Instruments Manual Based SOP No.EL-SOP-ARS-17	µg/m ³	<1.2	2.0
6.	Lead (as Pb)	IS 5182 (Part 22): 2004 (Reaffirmed 2014) Clause No.5	µg/m ³	<0.5	0.5
7.	Nickel (as Nil)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m ³	<1.0	20
8.	Oxidants (as Ozone O ₃)	IS 5182 (Part IX)- 19747 (Reaffirmed 2014)	µg/m ³	<10.0	100
9.	Oxidants of Nitrogen (as Ozone NO ₂)	IS 5182 (Part 6): 2006 (Reaffirmed 2017)	µg/m ³	13.6	40
10.	Particulate Matter (as PM ₁₀)	IS 5182 (Part 23): 2006 (Reaffirmed 2017)	µg/m ³	12.3	60
11.	Particulate Matter (as PM _{2.5})	EPA 40 CFR Part 50- Appendix I	µg/m ³	5.6	40
12.	Sulphur Dioxide (as SO ₂)	IS 5182 (Part 2): 2001 (Reaffirmed 2017)	µg/m ³	6.3	50

NOTES:

The Concentrations of the parameters tested in the above report are within the prescribed annual average limits of NAAQs tolerance limits.

Report Confirmed by



FOR IGNITE ENVIRONMENTAL SERVICES

Authorized Signatory



PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

AMBIENT AIR MONITORING

Report No	IES-NO-AR-72-103-2020	Report Date:	09.01.2020
Customer Name & Address M/s Aalim Muhammed saleggh college of Engineering, Avadi Chennai-55	Sample Reference No:	IES-NO-AR-72-61-2020	
	Sample Description:	Ambient Air	
	Sample Drawn by:	Laboratory	
	Sample Collected Date:	02.01.2020	
	Qty of sample Received:	Filter Paper(2nos) & Approx 25ml Solution(4nos)	
	Sample Received On:	02.01.2020	
	Test Commenced On:	03.01.2020	
	Test Completed On:	07.01.2020	
	Sampling Method:	IES-SOP-ARS-01 to 11	
	Sample Mark:	Near to library	

S.No	Name of the Test	Test Method	Units	Results	Max. Annual Average Limits Of NAAQs
1.	Ammonia (as NH ₃)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m ³	<5.0	100
2.	Arsenic (as As)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m ³	<0.1	6.0
3.	Benzene (as C ₆ H ₆)	IS 5182 (Part 11): 2006 (Reaffirmed 2017)	µg/m ³	<0.5	5.0
4.	Benza (α) Pyrene (as C ₂₀ H ₁₂)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m ³	<0.5	1.0
5.	Carbon Monoxide (as CO)	Instruments Manual Based SOP No.EL-SOP-ARS-17	µg/m ³	<1.2	2.0
6.	Lead (as Pb)	IS 5182 (Part 22): 2004 (Reaffirmed 2014) Clause No.5	µg/m ³	<0.5	0.5
7.	Nickel (as Nil)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m ³	<1.0	20
8.	Oxidants (as Ozone O ₃)	IS 5182 (Part IX)- 19747 (Reaffirmed 2014)	µg/m ³	<10.0	100
9.	Oxidants of Nitrogen (as Ozone NO ₂)	IS 5182 (Part 6): 2006 (Reaffirmed 2017)	µg/m ³	16.3	40
10.	Particulate Matter (as PM ₁₀)	IS 5182 (Part 23): 2006 (Reaffirmed 2017)	µg/m ³	14.0	60
11.	Particulate Matter (as PM _{2.5})	EPA 40 CFR Part 50- Appendix L	µg/m ³	6.5	40
12.	Sulphur Dioxide (as SO ₂)	IS 5182 (Part 2): 2001 (Reaffirmed 2017)	µg/m ³	7.1	50

END OF REPORT

NOTES:

The Concentrations of the parameters tested in the above Location are within the prescribed annual average limits of NAAQs tolerance limits.

Report Confirmed by




FOR IGNITE ENVIRONMENTAL SERVICES



Authorized Signatory



IGNITE ENVIRONMENTAL SERVICES

An ISO 9001:2015 Certified Organization

Environmental Testing & Analysis, Calibration of Instruments

No.38/2, F1 Ranga Flats, Bharathiyar Street, Near Indian Bank,
Hasthinapuram Road, Chrompet, Chennai - 44.

Regional Office : Pondicherry, Coimbatore & Andra Pradesh

Contact : 8778740104, 9384381615 | Email : igniteengg@gmail.com



9001:2015



TEST REPORT

Sample Ref No: IES/AS/122/2020

Date of Sampling: 02.01.2020

Issued To:

Report Date/Report No: 09.01.2020

M/s Aalim Muhammed saleggh college of Engineering,Avadi Chennai-55

Page 1 of 1

Group : Atmospheric Pollution
Discipline : Chemical Testing
Sample Description: Indoor Air Quality
Sampling Method : IS 5182, NIOSH & SOP

Sample Drawn By/Date : IES/02.01.2020
Received On : 02.01.2020
Analysis Commenced On: 03.01.2020
Analysis Completed On : 05.01.2020

Sl. No	Sampling Location	UNIT	RESULT Carbon-di-oxide (CO ₂)	ASHRAE LIMITS
1	Central Library	ppm	301	1000
2	Office	ppm	314	
3	Principal Room	ppm	258	
4	Canteen	ppm	231	
5	Computer Lab	ppm	249	

ASHRAE- American Society of Heating Refrigerating and Air-Conditioning Engineers,

-----End of Report-----



Authorized Signatory

Note 1. Test result shown in this test report relate only to the items tested

2. This test Report shall not be reproduce anywhere except in full and in same format without the approval of the Laboratory



PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



Certificate of Registration

This is to certify that

IGNITE ENGINEERING

6B, MADHA KOVIL ROAD, K.PUDUR, MADURAI,
TAMIL NADU, 625007, INDIA

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

ISO 9001:2015

Quality Management System

For the following scope of activities:

**CONDUCTING GREEN, ENERGY AND ENVIRONMENT AUDIT
TO EDUCATIONAL INSTITUTIONS AND INDUSTRIES.**

Date of Certification: 10th May 2022

2nd Surveillance Audit Due: 9th May 2024

1st Surveillance Audit Due: 9th May 2023

Certificate Expiry: 9th May 2025

Certificate Number: 305022071255Q



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).

The Validity of this certificate can be verified at www.qrocert.org

This certificate of registration remains the property of QRO Certification LLP, and shall be returned immediately upon request.

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COLLEGE OF ENGINEERING

India Office : QRO Certification LLP

142, IIInd Floor, Avtar Enclave, Near Paschim Vihar West Metro Station, Delhi-110063, (INDIA)

Website : www.qrocert.org, E-mail : info@qrocert.org



Accreditation Certificate No. (011905A)

**Arab Republic of Egypt
Egyptian Accreditation Council (EGAC)**

Certifies that

QRO Certification LLP

(142) - 2nd Avtar Enclave - Paschim Vihar

Delhi - India

Has been accredited by EGAC in compliance with the requirements of

**ISO/IEC 17021-1:2015
ISO/IEC 17021-3:2017
ISO 22003-1:2022**

**ISO/IEC 17021-2:2016
ISO/IEC TS 17021-10:2018
ISO 50003:2021**

In The Field of (QMS, EMS, OHSMS, FSMS, EnMS and MDQMS)

The scope of accreditation is described in the attached schedule No. (011905B)

Scope Issue No. (03)

Issue No. (03): November 21, 2023

Valid to: November 20, 2027

Subject to continued compliance to the above standard and EGAC requirements

The Company is accredited to grant certification under EGAC Accreditation

In the attached scope of accreditation

EGAC is an MLA Signatory with IAF in the Fields of Accreditation of Product Certification, Certification of Persons and Management System Certification (QMS, EMS, OHSMS, EnMS, FSMS and MDQMS) Bodies

1st Accreditation Date: November 21, 2019

Eng. Hanie El Desouki

Executive Director

Egyptian Accreditation Council

Eng. Ahmed Samir Saleh

Chairman of EGAC

Minister of Trade and Industry



70359

**PRINCIPAL
AAMM MUHAMMED SALEGH
COLLEGE OF ENGINEERING**



Accreditation Certificate No. (011905 A)

**Arab Republic of Egypt
Egyptian Accreditation Council (EGAC)**

Certifies that

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Delhi - India**

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**ISO/IEC 17021-1:2015
ISO/IEC 20000-6:2017**

**ISO/IEC 27006:2015
ISO/IEC 17021-6:2014**

In The Field of (ISMS, ITMS, BCMS and EOMS)

The scope of accreditation is described in the attached schedule No. (011905B)

Scope Issue No. (03)

Issue No. (03): November 21, 2023

Valid to: November 20, 2027

Subject to continued compliance to the above standard and EGAC requirements
The Company is accredited to grant certification under EGAC Accreditation
In the attached scope of accreditation

EGAC is an MLA Signatory with IAF in the Fields of Accreditation of
Product Certification, Certification of Persons and Management System
Certification (QMS, EMS, OHSMS, EnMS, FSMS and MDQMS) Bodies

1st Accreditation Date: November 21, 2019

Eng. Hanie El Desouki

Hanie El Desouki

Executive Director

Egyptian Accreditation Council

Eng. Ahmed Samir Saleh

Ahmed Samir Saleh

Chairman of EGAC

Minister of Trade and Industry



70358
PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Ministry of
Trade and Industry
Egyptian Accreditation Council
EGAC



وزارة التجارة والصناعة
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Schedule of Accreditation
for Certification Body According to ISO/IEC 17021-1
Issued To
QRO Certification LLP
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AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Schedule No.: 011905B

1st Accreditation date: November 21, 2019 Issue No. (03): November 21, 2023

Revision No. 0:

Valid to: November 20, 2027

30	Hotels and restaurants
32	Financial intermediation; real estate; renting.
33	Information technology.
34	Engineering services
35	Other services.
36	Public administration.
37	Education.
38	Health and social work

Kornish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt
Tel.: (202) 25275220/5/6/7
Fax: (202) 25275224

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1 / Dec 2018

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القومي
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Ministry of
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Schedule of Accreditation
for Certification Body According to ISO/IEC 17021-1
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PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Schedule No.: 011905B

1st Accreditation date: November 21, 2019 Issue No. (03): November 21, 2023

Revision No. 0):

Valid to: November 20, 2027

Food Safety Management System ISO 22000:2018 According to ISO 22003-1:2022

Cluster	Category	Sub-category			
		C0	C1	CII	CIV
Processing food for humans and animals	Food ingredient and pet food processing	C0	Animal – Primary conversion		
		C1	Processing of perishable animal products		
		CII	Processing of perishable plant products		
		CIII	Processing of perishable animal and plant products		
Catering/food service	Catering/food service	CIV	Processing of ambient stable products		
Retail, transport and storage	Trading, retail and e-commerce	E			
		F		FI	Retail/ wholesale
		G		FII	Brokering/ trading
Retail, transport and storage	Transport and storage services				

Kornish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt

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1 / Dec 2018

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مصر

القاهرة - مصر

برج رياض المعادي - القاهرة - مصر

٢٥٢٧٥٢٢٠/٥ (٢٠٢)

٢٥٢٧٥٢٢٤ (٢٠٢)



Schedule of Accreditation
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AALIM MUHAMMED SALEGH
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Schedule No.: 011905B 1st Accreditation date: November 21, 2019 Issue No. (03): November 21, 2023 Revision No. 0:

Valid to: November 20, 2027

Medical Device Quality Management Systems ISO 13485:2016 According to IAF MD 9	
Main Technical Areas	Technical Areas
Non-active Medical Devices	General non-active, non-implantable medical devices
	Non-active implants
	Devices for wound care
	Non-active dental devices and accessories
	Non-active medical devices other than specified above
In Vitro Diagnostic Medical Devices (IVD)	Reagents and reagent products, calibrators, and control materials for: <ul style="list-style-type: none">• Clinical Chemistry• Immunochemistry (Immunology)• Haematology/Haemostasis/• Immunohematology• Microbiology• Infectious Immunology• Histology/Cytology• Genetic Testing IVD Instruments and software
	IVD medical devices other than specified above

Ministry of
Trade and Industry
Egyptian Accreditation Council
EGAC



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Schedule No.: 011905B 1st Accreditation date: November 21, 2019 Issue No. (03): November 21, 2023 Revision No. (0):

Valid to: November 20, 2027

Information Security Management Systems ISO 27001:2013 In accordance with ISO/IEC 17021-1: 2015 & ISO/IEC 27006: 2015

Energy Management Systems ISO 50001:2018 According to 50003:2021

Information technology Management Systems ISO/IEC 20000-1:2018 In accordance with ISO/IEC 17021-1: 2015 & ISO/IEC 20000-6:2017

Business continuity Management Systems ISO 22301:2019 In accordance with ISO/IEC 17021-1: 2015 & ISO/IEC 17021-6:2014

Educational organization Management Systems ISO 21001:2018 In accordance with ISO/IEC 17021-1: 2015

This conformity assessment body (CAB) is recorded as issuing EGAC accredited certificates to organizations in the countries listed below. This list is current at the time of issue of this scope of accreditation.

India	Egypt	Jordan	Nigeria	Romania	Bulgaria
Note* :- Locations where certification activities covered by the above Accreditation Standard are undertaken 142, 2 nd Floor Avatar Enclave, Paschim Vihar, Delhi, India					

Korrich El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt

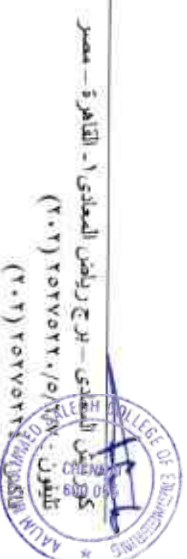
Tel.: (202) 25275220/5/6/7

Fax: (202) 25275224

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1 / Dec 2018

Page 7 of 7





Green International

Experts in Project Management Consulting & Training

This is to certify that

Mr. P.Vivek

has attended / successfully completed

LEED Green Associate

as per the standard of

“USGBC Green Building Principles”

Duration : 16 Hrs / 12 PDU's Start Date : 13 Jun 2015 End Date : 24 Jun 2015

Geetha Ravichandran, M.E, PMP, LEED AP,

Faculty / Program Coordinator

Course ID : GIGA0400

Certificate Number : GIGA-791



To verify the authenticity of this certificate, log on to
www.greenmtc-int.com/certificate_verification.aspx



TVE International Academy Pvt. Ltd.

Certificate of Achievement

This is to certify that

S.KARTHIGA

Has successfully passed all the course assessment requirements

ISO 14001:2015 Lead Auditor (Environmental Management Systems) Training Course

CQI & IRCA Course No : 1709

Certificate Number : TVEE06031277

CQI Unique Delegate ID No : 350909

Course End Date : 31st Jan 2022

Issue Date : 03rd June 2022



RAJALAKSHMI BASKARAN
Course Director



*The Certificate is valid for 5 years for the purpose of Auditor Certification by IRCA
For current validity of the certificate, visit www.tvcert.org*



PRINCIPAL
AALIM MUHAMMAD SALEGH
COLLEGE OF ENGINEERING



ASPIRA CERTIFICATIONS
www.aspiracertifications.com

Certificate of Achievement

This is to certify that

P.VIVEK

(CQI ULN : AC/ENMS/0521)

has successfully passed all the course assessment requirements for PR366 ISO
50001 : 2018 (Energy Management System) Lead Auditor Training Course

Course Start Date : 15.03.2021

Certificate No : 2021ENMS1466

Course End Date : 20.03.2021

Course No : 2318



CQI



IRCA

SALEM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Approved by:

Managing Director

S.No : ENMS/5689/2021

The Certificate is valid for 5 years from the date above for the purpose of registering as an auditor with IRCA

For authenticity of this certificate, visit, www.aspiracertifications.com



TVE International Academy Pvt. Ltd.

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This is to certify that

P. VIVEK

has successfully passed the examination of the CQI & IRCA Certified

**ISO 9001:2015 Lead Auditor
(Quality Management Systems)
Training Course**

Organized in Co-operation with



DRV Certification Services, India

CQI & IRCA Course No : 17980

Certificate Number: TVEQ12142154

CQI Unique Delegate ID No : 147061

Course Dates

: Nov - Dec 2018

(Weekend Programme)



CQI



IRCA

CERTIFIED COURSE

Course Director



For current validity of the certificate, visit www.tvecert.org

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COLLEGE OF ENGINEERING



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ISO 45001:2018 Lead Auditor
(Occupational Health and Safety Management Systems)
Training Course

Organized in Co-operation with



DRV Certification Services, India

CQI & IRCA Course No : 1878 Certificate Number: TVEH06212158
CQI Unique Delegate ID No : 187536 Course Dates : May - Jun 2019
(Weekend Programme)



CQI



IRCA

CERTIFIED COURSE

Course Director



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COLLEGE OF ENGINEERING

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