GREEN &ENVIRONMENT AUDIT REPORT

Sri Venkateswara College Of Engineering and
Technology
Thirupachur,Tiruvallur-631203

SRI VENKATESWARA
COLLEGE OF ENGINEERING AND TECHNOLOGY
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai
An ISO 9001:2015 Certified & Accredited by NBA
(A Telegu Minority Institution)

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February 2023
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Thirupachur, Thiruvallur.

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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.

SVCET 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

Sri Venkateswara College Of Engineering and Technology is self financing Engineering College affiliated to Anna University with ISO 9001 – 2015 Certification. It has been recognized as a premier institution of higher learning for job-oriented courses.

The campus is spread over an area of 27 acres of land with Huge built up area The college offers 9 Under Graduate Courses and 3 Post Graduate Courses in Engineering & management .There are 2000 students and 140 teaching faculty in the college which is promising to grow rapidly.

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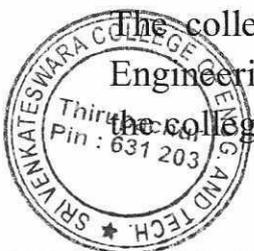
The College offers job-oriented courses, extra-curricular activities and technologically advanced facilities accessible to the faculty, the students and the support staff. Here, each individual is encouraged to step beyond the confines of academic and administrative disciplines to explore and intervene in the larger interests of the SVCET 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 main objectives of carrying out Green Audit are:

- To introduce and aware students to real concerns of environment and its Sustainability.
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use of the campus.
- To establish a baseline data to assess future sustainability by avoiding the Interruptions in environment that are more difficult to handle and their corrections requiring high cost.
- To bring out a status report on environmental compliance.

Benefits of green audit

- ➢ Green auditing should become a valuable tool in the management and monitoring of environmental and sustainable development programs of the college.

- ➢ Impart environmental education through systematic environmental Management approach and Improving environmental standards

- ➢ To create a green campus.
- ➢ To enable waste management through reduction of waste generation, solid-waste and water recycling.

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Methodology

In order to perform green audit, the methodology included different tools such as preparation of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. The study covered the following areas to summarize the present status of environment management in the campus:

- Water management
- Energy Conservation
- Waste management
- E-waste management
- Green area management
- Environment Monitoring

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.
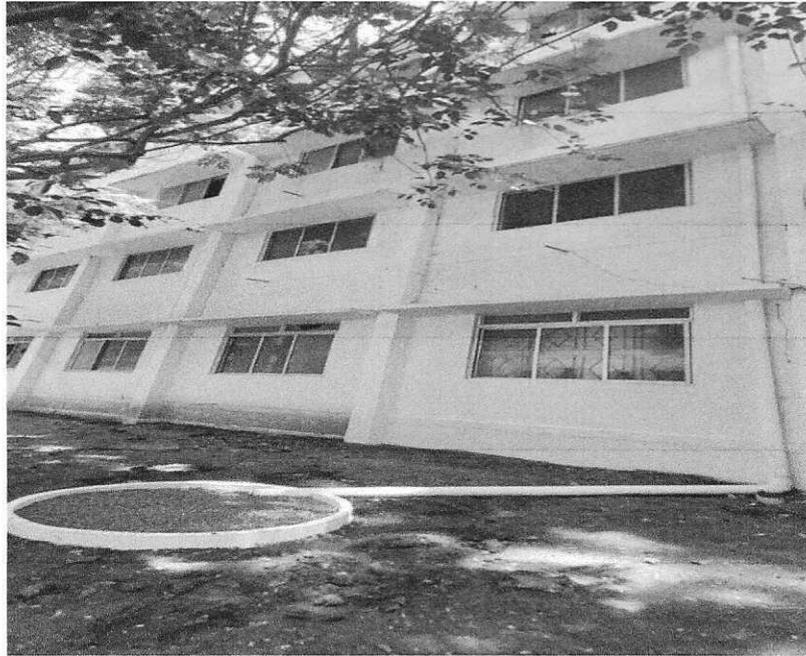
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Recharge Bore well inside the campus

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Rain Water Harvesting

Rain water harvesting units are also functional for recharging ground water level. The rain water collected from all floors of the building and Harvested in the recharge well available inside the campus .

Rain Water Harvesting Pits inside the campus
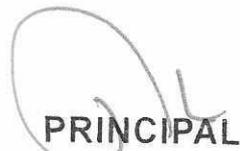
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Rain Water Harvesting Pits around the campus

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Recommendations

- ➢ There is a need for monitoring and controlling overflow and periodically supervision drills should be arranged.

- ➢ Minimize wastage of water and use of electricity during the reverse osmosis process and ensure that the equipment used are regularly serviced and in good condition.

- ➢ The cleaning products used by staff should have a minimal detrimental impact on the environment. They should be biodegradable and non-toxic.

- ➢ Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment, i.e. they are biodegradable and non-toxic, even where this exceeds the Control of Substances Hazardous to Health (COSHH) regulations.

- ➢ Gardens should be watered by using drip/sprinkler irrigation system to minimize water use.

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Waste Management

This indicator addresses waste production and disposal of different wastes like paper, food, plastic, biodegradable, construction, glass, dust etc. Furthermore, solid waste often includes wasted material resources that could otherwise be channeled into better service through recycling, repair, and reuse. Solid waste generation and management is a burning issue. Unscientific handling of solid waste can create threats to everyone. The survey focused on volume, type and current management practice of solid waste generated in the campus.
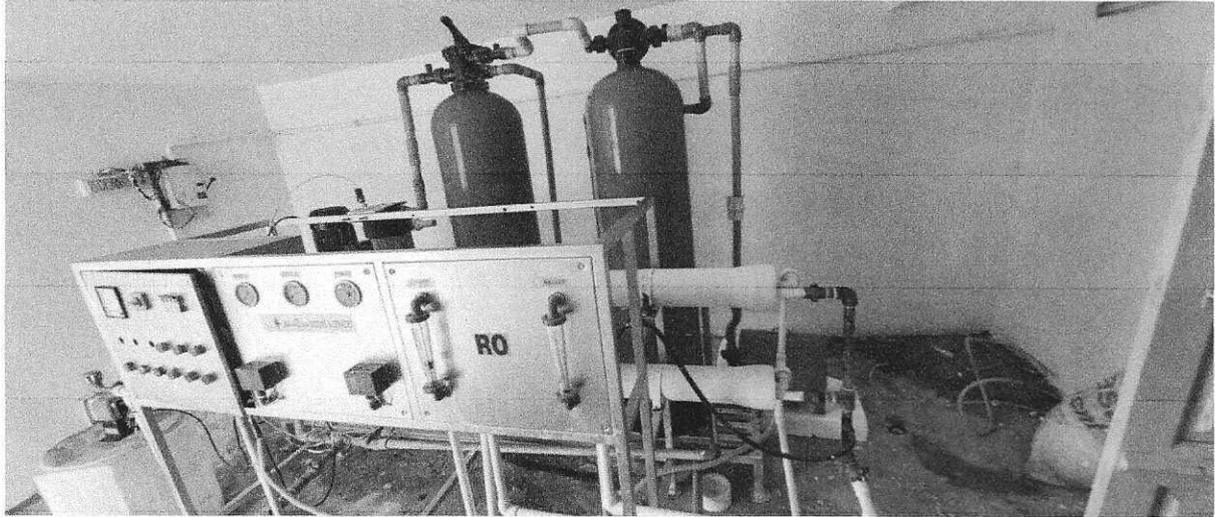
Observations

Liquid waste management

They have a **Mini RO plant** in all the blocks which is easily access to all the students &staffs to provide water for drinking and Cooking Purpose in Mess & Canteen.
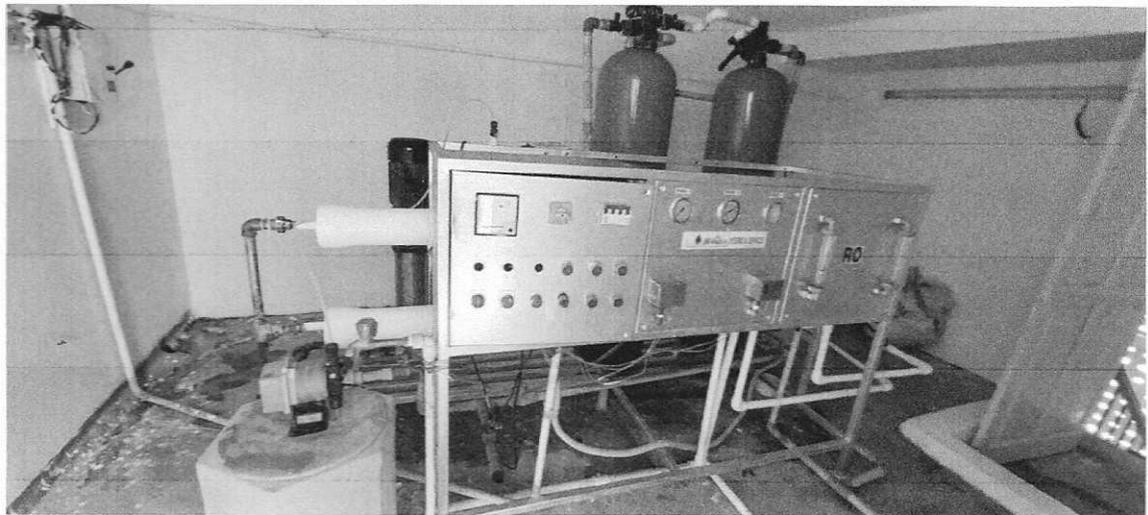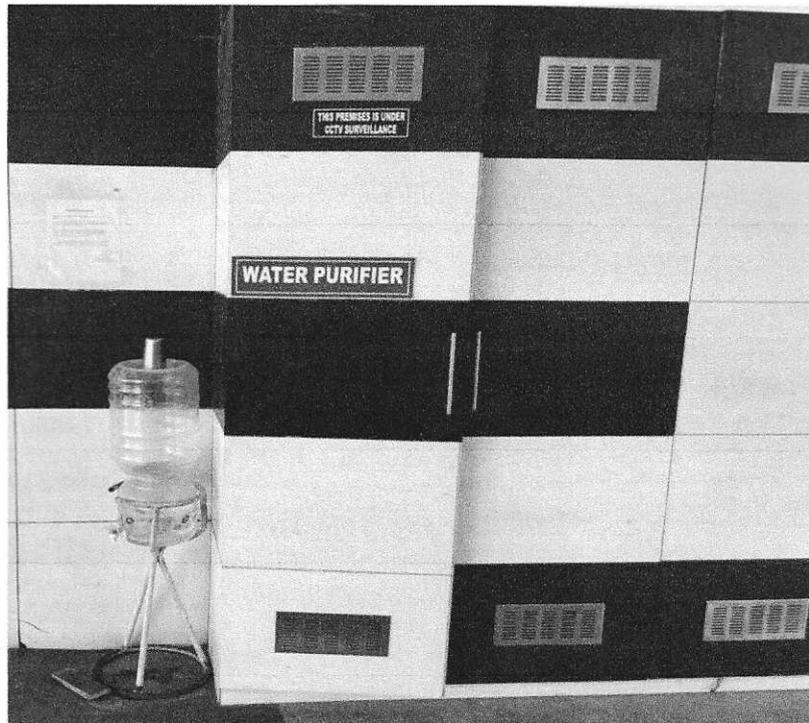

RO Plant Inside the Campus

Purified Water in all the Blocks

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Sewage Treatment Plant

Water is the basic necessity of life used for many purposes. So, recycling water is necessary. Considering this in our mind, SVCET have established an Sewage treatment plant inside the campus. The treated water is utilized properly for watering the plants throughout the campus and also for irrigation purposes.

Working principle Of Sewage Treatment Plant

The Sewage water (containing bathroom and kitchen waste) from entire college as well as the hostel buildings are received through the underground pipe lines.It is passed through grid chamber, bar screen chamber and degreasing chamber. In the grid chamber heavy density materials like sand are removed. In the bar screen chamber floating material like leaves are separated. When the Sewage is passed through degreasing tank the floating greasy (Oily substances) materials are scrubbed away from the degreasing tank.Then the Sewage is transferred to collection tank.From the collection tank, Sewage is pumped to Bio reactor (Aeration tank). In the Bio reactor the Sewage is digested by aerobic bacteria using sewage as food materials.The above treated water is passed through the sludge settling tank. From here the sludge is separated and passed to Sludge drying beds. After drying the sludge, it is used as natural organic manure for our gardening.After removing the sludge, the water is collected in a separate collection tank.This water is then pumped to sand filter and activated carbon filter. In the sand filter suspended particles are removed. In the carbon filter, any odour in the treated water is removed.The filtered water is then collected in a sump. From this sump, the water is pumped to the entire college Gardens through over head tank.

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Wastewater Treatment Plant Inside the campus

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Solid waste management

Waste generated from tree droppings and lawn management is major solid waste generated in the campus. Separate dustbins are provided for Bio-degradable and Plastic waste in order to segregate them at the source itself. Single sided used papers are reused for writing and printing in all the departments to minimize the usage of papers. Important and confidential reports/ papers are sent for pulping and recycling after completion of their preservation period.

Chemical waste generated in laboratories that are potentially hazardous are segregated. Very less plastic waste (0.1Kg/day) is generated by some departments, office, garden etc Metal waste and wooden waste is stored and sent to authorized scrap agents for further processing. Glass bottles are reused in the laboratories.

The college had Placed separate bins to collect biodegradable and non-biodegradablewaste generated in the campus.

Separate Bins for Degradable & Non Bio Degradable

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Separate Bins for Degradable & Non Bio Degradable around the campus

Recommendations

> The amount of waste generated from classrooms and staff rooms can be minimized.

> Full use of all recycling facilities provided by City Municipality and private suppliers can be utilized for waste disposal.

> Sufficient, accessible and well-publicized collection points can be made available for recyclable waste, with responsibility for recycling clearly allocated.

> If Biomedical Waste Accumulated Ensure to Proper Government Authorized Vendor to collect it.

> Solid Waste Management awareness Training Recommended for all the works one who are Involved in Gardening & Sweeping Work.

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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

E-waste generated in the campus is of minimal quantity. It is being effectively managed, keeping in mind the environmental hazards that may arise if not disposedproperly.

The cartridges of laser printers are refilled outside the college campus. Administration Awareness programmes are being conducted regarding E-wasteManagement in various departments. The E- wastes and defective items from computer laboratories are being stored properly.

The dismantled hardware of personal computers are used in PC trouble shooting lab. This is put to use to conduct practical courses for Students and The dismantled electronic spare parts are immediately sold for reuse. The minimal amount of e-waste that is generated after reusing is sent to recycler at specific intervals.

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E-Waste is properly collected in the campus

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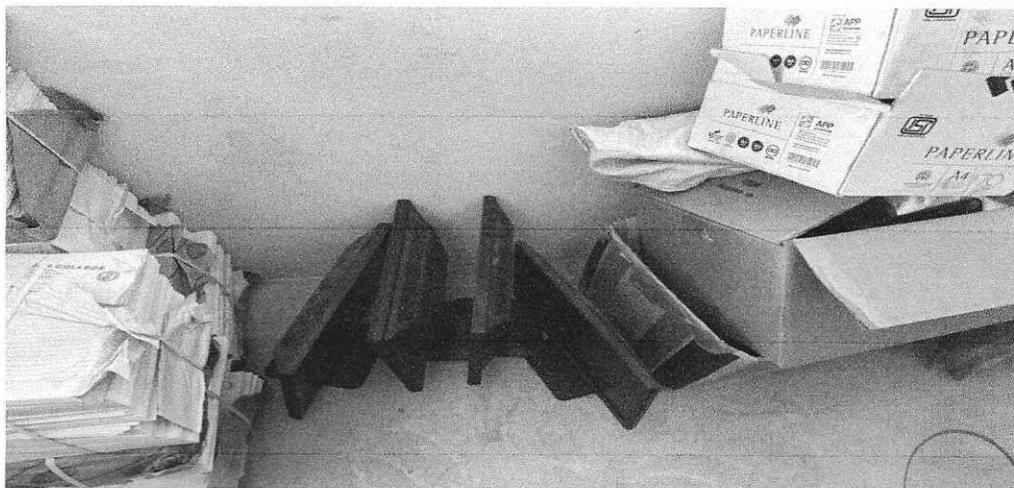
Recommendations

➢ Use reusable resources and containers and avoid unnecessary packaging wherever possible.

➢ The management should take an initiative to purchase recycled resources when they are available.

➢ Recycle or safely dispose of white goods, computers and electrical appliances.

➢ The Management engage proper Vendor to dispose the E Waste frequently.

Green Area Management

This includes the plants, greenery and sustainability of the campus to ensure that the buildings conform to green standards. This also helps in ensuring that the Environmental Policy enacted, enforced and reviewed using various environmental awareness programmes.

Observations

Campus is located in the vicinity of many trees (species) to maintain the bio-diversity. Various tree plantation programs are being organized at college campus and surrounding villages through NSS (National Service Scheme) unit. This program helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among villagers. The plantation program includes various type of indigenous species of ornamental and medicinal wild plant species.

The college cultivates vegetables for its own use through organic farming initiatives.

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Green Area Management Inside The campus

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Green Belt Across The campus

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Green Area Management Inside the campus

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World Environment Day

Every June 5th SVCET Celebrate World Environment day Observed On That Day Colleges organizes programmes to create awareness about the theme of UN Decade and other significant issues related to the environment and sustainable living .

World Environment Day Celebrated Inside The campus

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Student Involvement in Tree Plantation

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Student Involvement in Green Area Management

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Student & faculty Involvement in Tree Plantation
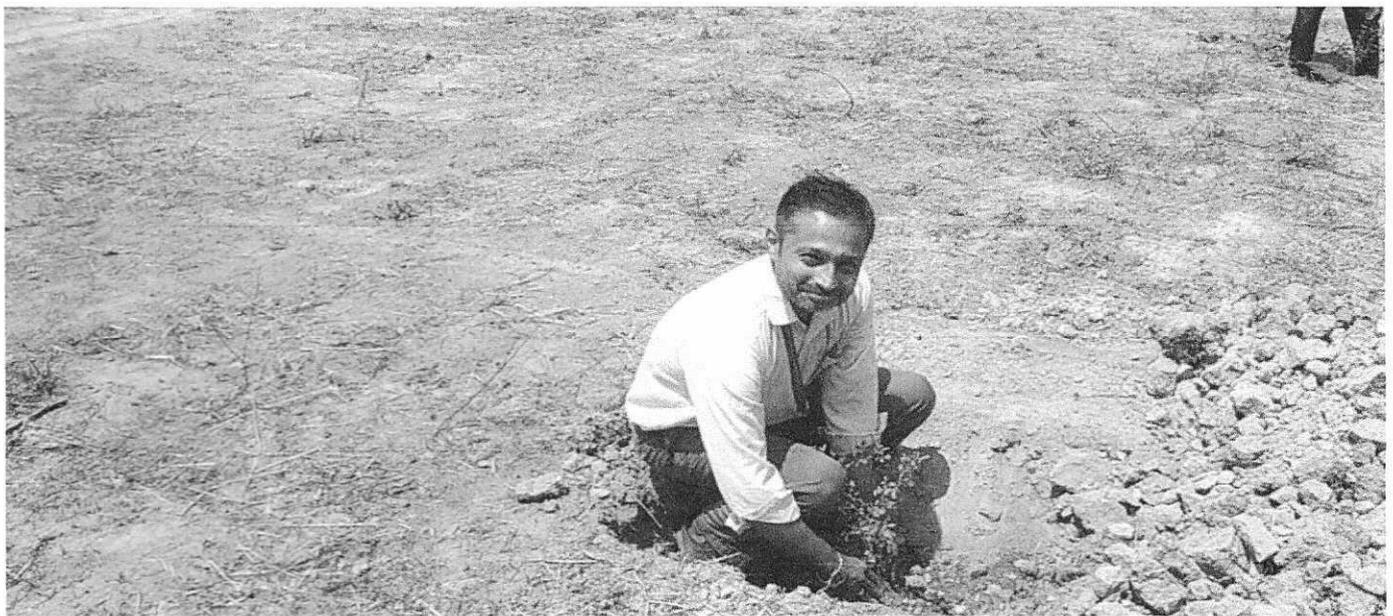
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Faculty Involvement in Tree Plantation

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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 &Vending Machine inside The Campus

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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 planted in corridor to bond a relation with nature.

- ➤ Green library should be established.

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Sanitation and Hygiene

Unsafe operation of educational institution can lead to transmission of diseases. It can cause negative impacts to students, their families, institute reputation and overall development. Therefore, good health and sanitation practices are very important especially considering the ongoing Covid'19 pandemic.

The provision of safe water and sanitation facilities is a first step towards a healthy physical learning environment. However, the mere provision of facilities does not make them sustainable or ensure the desired impact. Hygiene practices are employed as preventative measures to reduce the incidence and spreading of disease. Hygiene education aims to promote those practices that will help prevent water and sanitation-related diseases as well as inculcating healthy behaviours in the future generation of adults. Therefore, the combination of facilities, correct behavioural practices and education are meant to have a positive impact on the health and hygiene conditions of the community as a whole, both now and in the future.

1.Drinking water: Clean water as per drinking water standards have been ensured to students through Reverse Osmosis plant. RO plants of different capacity have been installed.

2.Water Supply: Adequate and clean water supply through Public Water Supply and borewell system has been ensured.

3.Sanitation: Adequate number of urinals/toilets have been operational in main Campus, Hostel, and Other areas. No open and flowing latrines were noticed. Sanitation facilities are found to be proper and adequate.

4.Waste Management: Waste management bins are placed at each block to store and dispose through municipality. During audit, no unattended waste dumping was noticed.

5.Awareness: Hygiene awareness posters especially related to Covid'19 is displayed at various locations in the campus. Overall, campus follows very good sanitation practices.

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Green Initiatives and Best Practices

The list of few important green initiatives and good environmental practices adopted by the campus is given below.

- Rainwater harvesting pits are constructed at appropriate locations to improve local ground water table.

- Installed solar Plant to meet partial power requirement of the Campus

- Replaced 60% of CFL lights with LED lights as part of energy conservation measures. Also, some of the old fans were replaced with energy efficient super fans.

- Engagement of authorized paper recycling vendor to manage bulk paper waste generated.

- Establishment of Organic Cultivation.

- Celebration Of World Environment Day and creating Environment Awareness to all Students & Staffs.

- Restricted movement of vehicles inside the campus. Parking space inside campus is provided for vehicles; however, no movement of vehicles inside campus is encouraged.

- Awareness posters on resource conservation, good sanitation and hygiene drive.

- Strictly follow the Plastic Free zone inside the campus is encouraged.

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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

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Ambient Air Quality Monitoring

Ambient air quality monitoring can help in providing a strategic solution towards air purification and help lead a safer life. Also, air quality monitoring in the college campus not only develops trust among the parents but ensures that the administration cares about their Students and Staff.

Lux&Noise Monitoring

Illumination is one of the most important environmental factors in the classroom. Many Doctors have discovered that lighting settings have significant impact on students' performance. So Lux monitoring can help in providing a Comfort Vision Environment to Students.

When assessing noise exposure in campus environments, it can be difficult to determine whether the level of sound has reached a point where it interferes with student learning and staff productivity, or worse, becomes a threat to their health and well-being.

C02 Monitoring

CO2 levels can provide a direct indication of the CFM per person ventilation rate in College classrooms and can provide an ongoing indication if code required ventilation rates are being maintained. It is important to Maintain that CO2 levels a contaminant or pollutant at the levels normally measured in buildings (400 to 2000 ppm).Measurement Based On ASHRAE Standards

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Conclusion

Green audit is a systematic approach to understand the existing environmental practices and identify areas of improvement for attaining an eco-friendly approach to the sustainable development of the college. The report is prepared based on the site visit observations and information provided by the campus.

Overall, SVCET has taken many environmentally friendly approaches and campaigns in the area of energy, water, solid waste, sanitation and green cover, which is highly commendable.

.The environmental awareness initiatives taken by the management are substantial. The installation of water recycling plants, paperless work system and Solar & Biogas Plant practices are remarkable. Besides, environmental awareness programmes initiated by the administration prove the campus is going green. Few recommendations are added for waste management and waste reduction using alternate eco-friendly and scientific techniques. This may lead to the prosperous future in context of Green Campus and thus aid in a sustainable environment and community development.

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Acknowledgement

We are grateful to the management and committee members of Sri Venkateswara College of Engineering and Technology 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.

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ER.P.VIVEK M.E(Ph.D)   **ER.S.KARTHIGA M.E(Ph.D)**
LEAD GREEN ASSOCIATE   **LEAD AUDITOR-ENVIRONMENT**
CHARTERED ENGINEER-AM1936517

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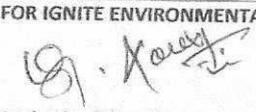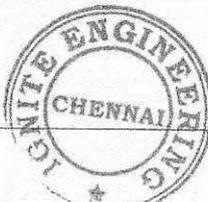Environmental Testing & Analysis, Calibration of Instruments

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ILLUMINATION MONITORING

Report No	IES-NO-IN-23-257-2023		
Customer Name & Address		**Report Date:**	08.02.2023
M/s Sri Venkateswara College Of Engineering And Technology		Sample of Reference No:	IES-NO-IN-22-093-2023
		Sample Description:	Light
Thirupachur, Thiruvallur-631 203.		Monitoring By:	Laboratory
		Monitoring Date:	08.02.2023
		Data Received On:	08.02.2023
		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	421	402
2.	Library	0.9	11 AM –12PM	224	236	234
3.	Class Room-01	0.9	11 AM –12PM	306	362	318
4.	Class Room-02	0.9	11 AM –12PM	401	454	213
5.	Class Room-03	0.9	11 AM –12PM	416	443	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

FOR IGNITE ENVIRONMENTAL SERVICES

Authorized Signatory

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NOISE MONITORING

Report No	EL-NO-NE-23-258-2023	Report Date:	08.02.2023
Customer Name & Address		Sample of Reference No:	IES-NO-IN-22-094-2023
M/s s Sri Venkateswara College Of Engineering And Technology		Sample Description:	Noise
		Monitoring By:	Laboratory
Thirupachur, Thiruvallur-631 203.		Monitoring Date:	08.02.2023
		Data received On:	08.02.2023
		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	53.9	58.7	57.3
2.	Library	Site	11 AM –12PM	58.9	65.2	61.2
3.	Canteen	Site	11 AM –12PM	56.0	55.0	55.6
4.	Class Room-1	Site	11 AM –12PM	51.0	60.5	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

D. Dui

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

AMBIENT AIR MONITORING

Report No	IES-NO-AR-72-197-2023	Report Date:	08.02.2023
Customer Name & Address		Sample Reference No:	IES-NO-AR-72-087-2023
		Sample Description:	Ambient Air
M/S *Sri Venkateswara College Of Engineering And Technology Thirupachur, Thiruvallur-631 203.*		Sample Drawn by:	Laboratory
		Sample Collected Date:	03.02.2023
		Qty of sample Received:	Filter Paper(2nos) & Approx 25ml Solution(4nos)
		Sample Received On:	03.02.2023
		Test Commenced On:	04.02.2023
		Test Completed On:	06.02.2023
		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	$\mu g/m^3$	<5.0	100
2.	Arsenic (as As)	CPCB Guidelines,Volume I, NAAQMS/36/2012-13	$\mu g/m^3$	<0.1	6.0
3.	Benzene (as C_6H_6)	IS 5182 (Part 11): 2006 (Reaffirmed 2017)	$\mu g/m^3$	<0.5	5.0
4.	Benza (α) Pyrene(as $C_{20}H_{12}$)	CPCB Guidelines,Volume I, NAAQMS/36/2012-13	$\mu g/m^3$	<0.5	1.0
5.	Carbon Monoxide (as CO)	Instruments Manual Based SOP No.EL-SOP-ARS-17	$\mu g/m^3$	<1.2	2.0
6.	Lead (as Pb)	IS 5182 (Part 22): 2004 (Reaffirmed 2014) Clause No.5	$\mu g/m^3$	<0.5	0.5
7.	Nickel (as Nil)	CPCB Guidelines,Volume I, NAAQMS/36/2012-13	$\mu g/m^3$	<1.0	20
8.	Oxidants (as Ozone O_3)	IS 5182 (Part IX)- 19747 (Reaffirmed 2014)	$\mu g/m^3$	<10.0	100
9.	Oxidants of Nitrogen (as Ozone NO_2)	IS 5182 (Part 6): 2006 (Reaffirmed 2017)	$\mu g/m^3$	9.1	40
10.	Particulate Matter (as PM_{10})	IS 5182 (Part 23): 2006 (Reaffirmed 2017)	$\mu g/m^3$	9.2	60
11.	Particulate Matter (as $PM_{2.5}$)	EPA 40 CFR Part 50- Appendix L	$\mu g/m^3$	5.1	40
12.	Sulphur Dioxide (as SO_2)	IS 5182 (Part 2): 2001 (Reaffirmed 2017)	$\mu g/m^3$	5.3	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

PRINCIPAL
Sri Venkateswara College of
Engineering and Technology,
Thirupachur, Thiruvallur - 631 203

AMBIENT AIR MONITORING

Report No	IES-NO-AR-72-198-2023	Report Date:		08.02.2023
Customer Name & Address		Sample Reference No:		IES-NO-AR-72-088-2023
		Sample Description:		Ambient Air
M/s *Sri Venkateswara College Of*		Sample Drawn by:		Laboratory
Engineering And Technology		Sample Collected Date:		08.02.2023
Thirupachur, Thiruvallur-631 203.		Qty of sample Received:		Filter Paper(2nos) & Approx 25ml Solution(4nos)
		Sample Received On:		03.02.2023
		Test Commenced On:		04.02.2023
		Test Completed On:		05.02.2023
		Sampling Method:		IES-SOP-ARS-01 to 11
		Sample Mark:		Near to Canteen

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	9.0	40
10.	Particulate Matter (as PM$_{10}$)	IS 5182 (Part 23): 2006 (Reaffirmed 2017)	µg/m^3	9.6	60
11.	Particulate Matter (as PM$_{2.5}$)	EPA 40 CFR Part 50- Appendix L	µg/m^3	5.4	40
12.	Sulphur Dioxide (as SO$_2$)	IS 5182 (Part 2): 2001 (Reaffirmed 2017)	µg/m^3	6.0	50

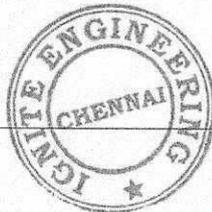<----------END OF REPORT---------->

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

D. Ruis

FOR IGNITE ENVIRONMENTAL SERVICES

Authorized Signatory

PRINCIPAL
Sri Venkateswara College of
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Thirupachur, Thiruvallur-631 203.

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

ISO 9001:2015
ISO 14001

TEST REPORT

Sample Ref No: IES/AS/163/2023	Date of Sampling: 03.02.2023
Issued To:	Report Date/Report No: 08.02.2023

M/S. *Sri Venkateswara College Of Engineering And Technology*
Thirupachur, Thiruvallur-631 203

Page 1 of 1

Group	:Atmospheric Pollution	Sample Drawn By/Date	: IES/03.02.2023
Discipline	: Chemical Testing	Received On	: 04.02.2023
Sample Description	: Indoor Air Quality	Analysis Commenced On	: 05.02.2023
Sampling Method	: IS 5182, NIOSH & SOP	Analysis Completed On	: 06.02.2023

Sl. No	Sampling Location	UNIT	RESULT Carbon-di-oxide (CO_2)	ASHRAE LIMITS
1	Central Library	ppm	244	
2	Office	ppm	252	
3	Principal Room	ppm	232	
4	Canteen	ppm	231	
5	Computer Lab	ppm	236	1000

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

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

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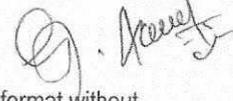
Note. 1. Test result shown in this test report relate only to the items tested

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

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Certificate of Registration

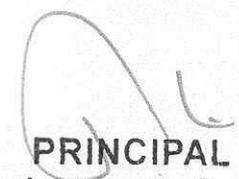This is to certify that

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: 3050220712550Q

EGAC
CAB # 011905

IAF

_____
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.

India Office : QRO Certification LLP
42, IInd Floor, Avtar Enclave, Near Paschim Vihar West Metro Station, Delhi - 110063, (INDIA)
Website : www.qrocert.org, E-mail : info@qrocert.org

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Sri Venkateswara College of
Engineering and Technology,
Thirupachur, Thiruvallur - 631 203

Thirupachur
Pin : 631 203
SRI VENKATESWARA COLLEGE OF ENGG. AND TECH.

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 17021-2:2016
ISO/IEC 17021-3:2017   ISO/IEC TS 17021-10:2018
ISO 22003-1:2022   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   Eng. Ahmed Samir Saleh

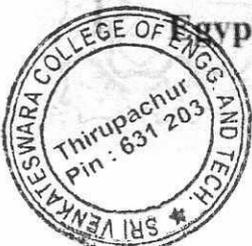Executive Director   Chairman of EGAC
Egyptian Accreditation Council   Minister of Trade and Industry

70359
PRINCIPAL
Sri Venkateswara College of
Engineering and Technology,
Thirupachur, Thiruvallur - 631 203

EGAC

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 27006:2015**
ISO/IEC 20000-6:2017	**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   **Eng. Ahmed Samir Saleh**

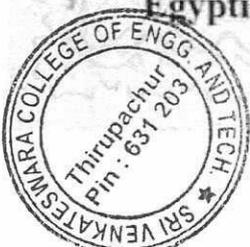**Executive Director**   **Chairman of EGAC**

Egyptian Accreditation Council   **Minister of Trade and Industry**

70358

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Schedule of Accreditation
for Certification Body According to ISO/IEC 17021-1
Issued To
QRO Certification LLP
(142) - 2nd Floor Avtar Enclave - Paschim Vihar - Delhi - India

Schedule No.: 011905B   1st Accreditation date: November 21, 2019   Issue No. (03): November 21, 2023   Revision No. ():   Valid to: November 20, 2027

IAF Codes No.	Quality Management System ISO 9001:2015
1	Agriculture, forestry and fishing
3	Food products, beverages and tobacco
4	Textiles and textile products
5	Leather and leather products
6	Wood and wood products
7	Limited to "Pulp and paper manufacturing"
10	Manufacture of coke and refined petroleum products
12	Chemicals, chemical products and fibres
14	Rubber and plastic products
17	Basic metals and fabricated metal products.
18	Machinery and equipment.
19	Electrical and optical equipment.
20	Shipbuilding.
22	Other transport equipment.
23	Manufacturing not elsewhere classified
28	Construction
29	Wholesale and retail trade; Repair of motor vehicles, motorcycles and personal and household goods.

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Thirupachur, Thiruvallur, 631 203

Kornish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt
Tel.: (202) 23750/5/6/9
Fax: (202) 25275224

كورنيش المعادى - برج رياض المعادى - الدور الأول - مصر
تليفون : ٢٠٢/٥/٦/٧
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

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1 / Dec 2018

Page 1 of 7

الصفحة الرسمية لخريطة الاستثمار الصناعى فى مصر :
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Issued To
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Schedule No.: 011905B   1ˢᵗ Accreditation date: November 21, 2019   Issue No. (03): November 21, 2023   Revision No. ():   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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Page 2 of 7

كورنيش المعادى ــ برج رياض المعادى ١ـ القاهرة ــ مصر

تليفون : (٢٠٢) ٢٥٢٧٥٢٢٠/٥/٦/٧

فاكس : (٢٠٢) ٢٥٢٧٥٢٢٤

الصفحة الرسمية لخريطة الاستثمار الصناعي في مصر: http://invegypt.com Industrial Investment Map

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for Certification Body According to ISO/IEC 17021-1
Issued To
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Schedule No.: 011905B   1st Accreditation date: November 21, 2019   Issue No. (03): November 21, 2023   Revision No. ():   Valid to: November 20, 2027

IAF Codes No.	Environmental Management System ISO14001:2015
3	Food products, beverages and tobacco
12	Chemicals, chemical products and fibres
14	Rubber and plastic products
15	Non-metallic mineral products
16	Concrete, cement, lime, plaster, etc.
17	Basic metals and fabricated metal products.
18	Machinery and equipment.
19	Electrical and optical equipment.
22	Other transport equipment.
28	Construction
30	Hotels and restaurants
32	Financial intermediation; real estate; renting.
33	Information technology.
34	Engineering services
37	Education.
38	Health and social work

PRINCIPAL
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Fax: (202) 25/5224

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Page 3 of 7

كورنيش المعادى ـ برج رياض المعادى ١ ـ القاهرة ـ مصر
(٢٠٢) ٢٥٧٥٢٢٠/٥/٦/٧
(٢٠٢) ٢٥٧٥٢٢٤

الصفحة الرسمية لخريطة الاستثمار الصناعى فى مصر:
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Issued To
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Schedule No.: 011905B   1ˢᵗ Accreditation date: November 21, 2019   Issue No. (03): November 21, 2023   Revision No. ():   Valid to: November 20, 2027

IAF Codes No.	Health and Safety Management System ISO 45001:2018
3	Food products, beverages and tobacco
12	Chemicals, chemical products and fibres
14	Rubber and plastic products
15	Non-metallic mineral products
16	Concrete, cement, lime, plaster, etc.
17	Basic metals and fabricated metal products.
18	Machinery and equipment.
19	Electrical and optical equipment.
22	Other transport equipment.
28	Construction
30	Hotels and restaurants
32	Financial intermediation; real estate; renting.
33	Information technology.
34	Engineering services
37	Education.
38	Health and social work

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Schedule No.: 011905B   1ˢᵗ Accreditation date: November 21, 2019   Issue No. (03): November 21, 2023   Revision No. ():   Valid to: November 20, 2027

Food Safety Management System ISO 22000:2018 According to ISO 22003-1:2022					
Cluster		**Category**			**Sub-category**
Processing food for humans and animals	C	Food ingrediant and pet food processing	C0		Animal – Primary conversion
			CI		Processing of perishable animal products
			CII		Processing of perishable plant products
			CIII		Processing of perishable animal and plant products
			CIV		Processing of ambient stable products
Catering/food service	E	Catering/food service			
Retail, transport and storage	F	Trading, retail and e-commerce	FI		Retail/ wholesale
			FII		Brokering/ trading
	G	Transport and storage services			

Komiah Maadi, Riad El-Maadi Tower I - Cairo - Egypt
TEL: (202) 5275220/5/6/7
FAX: (202) 5275224

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كورنيش المعادى برج رياض المعادى١- القاهرة ـ مصر

الصفحة الرسمية لخريطة الاستثمار الصناعى، فى مصر
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Issued To
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Schedule No.: 011905B   1st Accreditation date: November 21, 2019   Issue No. (03): November 21, 2023   Revision No. ():   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: • 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

Korba El-Maadi, Black 1, Maadi Tower 1 - Cairo - Egypt
Tel (202) 2525220/5517
Fax 02525275224

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Page 6 of 7

برج رياض المعادى ١- القاهرة – مصر
(٢٠٢)

الصفحة الرسمية لخريطة الاستثمار الصناعى فى مصر
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Schedule of Accreditation
for Certification Body According to ISO/IEC 17021-1
Issued To
QRO Certification LLP
(142) - 2nd Floor Avtar Enclave - Paschim Vihar - Delhi - India

Schedule No.: 011905B   1st Accreditation date: November 21, 2019   Issue No. (03): November 21, 2023   Revision No. ():   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 | Jorden | Nigeria | Romania | Bulgaria |

Note* :- Locations where certification activities covered by the above Accreditation Standard are undertaken 142, 2nd Floor Avtar Enclave, Paschim Vihar, Delhi , India

Fanish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt
(202) 25275220/5/6/7
Fax: 25275225

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1 / Dec 2018

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ج رياض المعادى١- القاهرة — مصر
(٢٠٢) ٢٥٢٧٥٢٢٠/٥/٦/٧
(٢٠٢) ٢٥٢٧٥٢٢٥

الصفحة الرسمية لخريطة الاستثمار الصناعي، في مصر: Industrial Investment Map: http://invegypt.com

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Thirupachur, Thiruvallur - 631 203

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

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PMP and PMBOK are registered marks of the Project Management Institute, inc

TVE International Academy Pvt. Ltd.

Certificate of Achievement

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

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

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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

CQI | IRCA
CERTIFIED COURSE

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.tvecert.org

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Certificate of Achievement

This is to certify that

P. VIVEK

has successfully passed the examination of the CQI & IRCA Certified

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
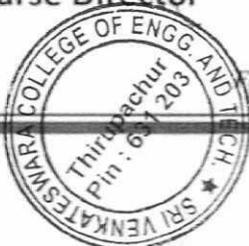
(Weekend Programme)

CQI | IRCA

CERTIFIED COURSE

_____
Course Director

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

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The Institution of Engineers (India)

By virtue of Qualification, Professional
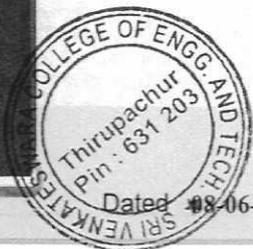training and Corporate Membership
of this Institution

VIVEK P

OF

MECHANICAL ENGINEERING DIVISION

is hereby authorised to use the style and title of

Chartered Engineer [India]

AM1936517

Dated 08-06-2020

PRINCIPAL
Sri Venkateswara College
Engineering and Technology
Secretary and Director General
Thirupachur, Thiruvallur - 631 203