



## **GREEN FOUNDATION**

# 8-2-703/5, Road No.12,  
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## **IOTA LABORATORIES**

D. No. 11-3-744, Mallepally,  
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Ph. No. 91-40-23342774, Mobile: 09848018706  
Regd. No.682/2012; GST No. 36AGFPR1451H1ZF

## **GREEN AUDIT CERTIFICATE**

**(For the Period from 2021 to 2022)**

This is to certify that Green Audit of Anwarul Uloom College Mallepally, Hyderabad Campus was conducted By M/S Green Foundation, Banjara Hills, Hyderabad and Iota Iota Laboratories, Mallepally, Hyderabad **from 1<sup>ST</sup> July, 2021 to 20<sup>TH</sup> July, 2022**. The Anwarul Uloom College Mallepally, Hyderabad administration team of the college of the campus has submitted necessary input data and credentials for scrutiny. The Green Audit Team has inspected all aspects to assess the Green initiatives planning and efforts implemented in the college campus like Green Campus Management, Carbon footprint, waste management, cleanliness and conservation of Energy. This Green Audit is also aimed to assess the impact of green initiatives for maintenance of Eco-friendly Campus. The suggestions and recommendations have been made in the Green Audit Report. It is found that Anwarul Uloom College Mallepally, Hyderabad has all necessary facilities for environmental safety.

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# GREEN AUDIT REPORT

ANWARUL ULOOM COLLEGE, MALLEPALLY

HYDERABAD

2021-2022



Estd.1909

ANWARUL ULOOM COLLEGE(Autonomous), Hyderabad

*Affiliated to Osmania University  
Re-Accredited with 'A Grade by NAAC*

*Conducted by Green Audit Team*

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# HYDERABAD





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## ACKNOWLEDGEMENT

Green Foundation and Iota Laboratories, Green Audit Team acknowledges with thanks the management of **Anwarul Uloom College, Mallepally, Hyderabad** for assigning this important work of Green Audit (Environmental Audit). We appreciate the co-operation to our team for completion of study.

Our special thanks are due to:

- Principal of the college – Mr. Mohd. Mazharuddin
- Director Of Administration – Mr. Mohd. Habbeeb Uddin Ahmed
- IQAC Member and professor of Botany Dept – Dr. Sadia Fatima
- IQAC Coordinator – Dr. Mohd. Aijaz Khan
- IQAC member and Professor of Mathematics – Dr. Mohd. Salah Uddin
- IQAC member & Professor of Biotechnology – Mrs. Naddeem Fatima
- IQAC member and Professor of Commerce – Dr. A. Vijay Govind
- Professor & Head of Business Administration – Dr. Yasmeen Banu
- Professor and Head of Computer Science - Dr. Ubaid Siddiqui
- Professor and Head of Microbiology – Ms. Hasana Khatoon
- Green Audit coordinator – Dr. Sadia Fatima
- Teaching & Supporting Staff of College

For providing us valuable information and giving us necessary inputs to carry out this very vital exercise of Green Audit (Environment Audit). We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.

*Md. Siddiq*  
GREEN FOUNDATION

DIRECTOR  
GREEN FOUNDATION  
HYDERABAD

*S. Mazharuddin Ahmed*  
IOTA LABORATORIES

Managing Director  
IOTA LABORATORIES  
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## **DISCLAIMER**

Green Foundation and Iota Laboratories Green Audit Team/Environment Audit Team has prepared this report for **Anwarul Uloom College, Mallepally, Hyderabad** based on input data submitted by the representatives of College complemented with the best judgment capacity of the expert team.

It is further informed that the conclusions are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

If you wish to distribute copies of this report external to your organization, then all pages must be included.

Green Foundation and Iota Laboratories their staff and agents shall keep confidential all information relating to your organization and shall not disclose any such information to any third party, except that in the public domain or required by law or relevant accreditation bodies. EHS Alliance staff, agents and accreditation bodies have signed individual confidentiality undertakings and will only receive confidential information on a 'need to know' basis.

*M. Siddiqui*

**GREEN FOUNDATION**

**DIRECTOR  
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*S. Niazuddin Ahmad*

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## **CONTEXT**

We are committed as a component of Corporate Social Responsibility of the Higher Edifying Institutions to ascertain that they contribute towards the minimization of ecumenical warming through Carbon Footprint abbreviation measures.

Anwarul Uloom College, Mallepally, Hyderabad Management decided to conduct an external Green Evaluation by a competent Green Auditor along with a Green Audit Assessment Team headed by MR. MOHD. MAZHERUDDIN, Principal, Anwarul Uloom College, Mallepally, Hyderabad.

Green Audit or Environment Audit focuses on the Green Campus, Waste Management, Water Management, Air Pollution, Energy Management & Carbon Footprint etc.. being implemented by the College Management. The concept, structure, objectives, methodology, tools of analysis, objectives of the audit are mentioned below.

## **CONCEPT**

The term 'Environmental audit' or 'Green audit' means differently to different people. Terms like 'assessment', 'survey' and 'review' are also used to describe similar activities. Furthermore, some organizations/Institutions believe that an 'environmental audit' or Green Auditing addresses only environmental matters, whereas others use the term to mean an audit of health, safety and environment-related matters. Although there is no universal



definition of Green Audit, many leading companies/institutions follow the basic philosophy and approach summarized by the broad definition adopted by the International Chambers of Commerce (ICC) in its publication of Environmental Auditing (1989).

The ICC defines Green Auditing or Environmental Auditing as:

*"A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects."*

The outcome of Green Audit should be established with concrete evidence that the measures undertaken and facilities in the institution under Green auditing.

*Md. Siddiq*  
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## **INTRODUCTION**

A Nation's growth starts from its educational institutions, where the ecology is thought as a prime factor of development associated with environment. Educational institutions now a days are becoming more sensitive to environmental factors and more concepts are being introduced to make them eco-friendly. To preserve the environment within the campus, various viewpoints are applied by the several educational institutes to solve their environmental problems such as promotion of the energy savings, recycle of waste, water reduction, water harvesting etc.. The activities pursued by colleges can also create a variety of adverse environmental impacts.

Environmental auditing is a process whereby an organization's environmental performance is tested against its environmental policies and objectives. Green audit is defined as an official examination of the effects a college has on the environment. As a part of such practice, internal environmental audit (Green Audit) is conducted to evaluate the actual scenario at the campus.

Green audit can be a useful tool for a college to determine how and where they are using the most energy or water or resources; the college can then consider how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. Green auditing and the implementation of mitigation measures is a win-win situation for



all the college, the learners and the planet. It can also create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus.

Green auditing promote financial savings through reduction of resource use. It gives an opportunity for the development of ownership, personal and social responsibility for the students and teachers. Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues.

A very simple indigenized system has been devised to monitor the environmental performance of educational institutions. It comes with a series of questions to be answered on a regular basis. Environmental conditions may be monitored from angles that are relevant to Indian requirements, without stress on legal issues or compliance.

This innovative scheme is user-friendly and totally voluntary. The environmental monitoring system helps the institution to set environmental examples for the community and to educate young

learners. It can be adapted to urban and / or rural situations.

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments. It aims to analyze environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. Green audit can be a useful tool for a college to determine how and where they are using the most energy or water or resources; the college can then consider how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. If self enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self enquiry is a natural and necessary outgrowth of a quality educational institution. Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.



## **OBJECTIVES:**

The Green Audit of an institution is becoming a paramount important these days for self- assessment of the institution, which reflects the role of the institution in mitigating the present environmental problems. The college has been putting efforts to keep the environment clean since its inception. But the auditing of this non-scholastic effort of the college has not been documented. Therefore, the purpose of the present green 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:

- 1. To document the quality drinking water**
- 2. The document the quality of recycled waste water for gardening**
- 3. To document the solid Waste disposal system**
- 4. To document the ambient environmental condition of air, water and noise in the campus.**
- 5. The Air pollution data was collected from Central Laboratory, Telangana State Pollution Control Board, Hyderabad for the period from January,2021 to July,2021 and is appended in Appendix of this Green Audit report.**
- 6. The Noise pollution data in terms of real time noise levels in decibels db was collected from Central Laboratory, Telangana State Pollution Control Board, Hyderabad for the period from January,2021 to July,2021 and is appended in Appendix of this Green Audit report.**
- 7. The financial inputs, expenditure to be incurred in controlling the above**
  - i) Maintenance of quality of water used for drinking purpose both by the students and staff**
  - ii) recycling of waste water,**
  - iii) solid Waste disposal system and**
  - iv) Ambient environmental condition of air, water and noise in the**

campus periodical check up in implementing may be taken up by the college management authority

The broad aims/benefits of the Green Auditing system would be

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Sustainable use of natural resource in the campus.
- Financial savings through a reduction in resource use
- Curriculum enrichment through practical experience
- Development of ownership, personal and social responsibility for the College campus and its environment
- Enhancement of College profile
- Developing an environmental ethic and value systems in young people

#### **METHODOLOGY:**

The purpose of the green audit of Anwarul Uloom College, Mallepally, Hyderabad is to ensure that the practices followed in the campus are in accordance with the Green Policy adopted at the institution. The methodology includes the preparation, physical inspection of the campus, observation and review of the documentation, green audit parameters at intervals, interviewing key persons and data analysis, measurements and recommendations. Some data have also been supplied from the college authorities.

#### **VISION:**

To provide India and the World, technical manpower of the highest academic excellence and World class by shaping our youth through holistic and integrated education of the highest quality.

#### **MISSION:**

To develop Anwarul Uloom College of Education through Quality, Innovative and State-of-art educational initiatives into a center of academic excellence



that will turn out youth with well balanced personality & commitment to rich cultural heritage of India and who will successfully face the Scientific and Technological challenges in the fast-evolving Global- scenario with a high degree of credibility, integrity and ethical standards.

## **OVERVIEW OF THE INSTITUTE**

Anwarul Uloom College of Education was established in 1988-89. The Anwarul Uloom College of Education under the Aeg is of Anwar ul Uloom Educational Association.

The Anwarul Uloom College is an institute of knowledge, learning, excellence and humility, the institution with a vision of imparting education & empowering minority. This institution is with an adherence to principles. Anwarul Uloom is an institution with a great history and achievements, exemplary students from this institution have taken stride in the concept of education taking it forward to the next level by placing it on the global map with virtue and integrity.

The privilege of being The Largest Autonomous Minority Serving Institute In Telangana as one of its many feats including the distinction of glorious 109 years celebrations of its establishment - the noble act which is surely the stuff of dreams is achieved by ANWARUL ULLOOM COLLEGE. The meticulous institute has boarded the train of success and achieved this colossal feat with the hard work, determination and vision of its management and students and has vowed to never slow down its trail of achievements in the years to come. The college conducted its Grand Convention Ceremony marking the 109 year

celebration of its establishment rewarding its exemplary students with prestigious awards for their efforts. 118 students from various courses received their degrees for their overall excellence in academics and 18 students received gold medals for their extraordinary performance and overall personality exuberance showing path breaking achievements in the aspects of sports, academic, humanitarian endeavors and creativity.

ANWAR ULLOM COLLEGE is an Autonomous institution Affiliated to O.U the institution was granted autonomy by UGC in the year 1989. Anwarul Uloom also have an accreditation by NAAC- in 2010. The Institution runs a CBCS with Semester System pattern. Anwarul Uloom College has crafted an environment keeping in mind student requirements and market demand with a shift system to help them master theory concepts and strategies as well as develop and hone their skills in the field of corporate culture. Situated in the heart of the city with a sprawling 3 acre campus, spacious class rooms, laboratories, library, reading rooms conference halls , offering advanced courses in Retail marketing and diplomas in E commerce, training students in various aspects of personal growth and providing detailed and upgraded training modules for group 1 and 2 exams.

Anwarul Uloom College is located in the heart of the city on the main road at Nampally, Anwarul Uloom College of Education has a campus area of 3,221 Sq Mtrs. The campus atmosphere is congenial for the holistic development of the students coming from varied backgrounds.

The academic quality of college life is enhanced by the provision of the best faculty and all possible infrastructural facilities for the benefit of the student community of minority community and other communities.

Anwarul Uloom College, Hyderabad is a very popular college in the state of Telangana. Anwarul Uloom College, Hyderabad was established in 1910. It is one of the leading college in Arts, Humanities and Social Sciences, Business Finance and Commerce, Management Studies and Science and Mathematics. It is located in Hyderabad, Telangana. Anwarul Uloom College, Hyderabad is a Private institution. More than 19 courses are taught in this institution.

Under the Arts, Humanities and Social Sciences, there are a total of 4 courses. For Under Graduate studies, B.A. (Economics) and B.A. are available for enrolment. For Post Graduate studies, M.A. (Economics) and M.A. (History) are available for enrolment.

Under the Business Finance and Commerce, there are a total of 6 courses. The Under Graduate category has 5 courses which are B.Com., B.Com. (Computer), B.Com. (E - Commerce), B.Com. (Hons.) and many more. For Post Graduate studies, M.Com. is the only course taught.

Under the Management Studies, 1 course is available. For Under Graduate studies, BBA is the only course taught.

Under the Science and Mathematics, there are a total of 9 courses. For Under Graduate studies, B.Sc. and B.Sc. (Computer Science and Engg.) are available for enrolment. Under the Post Graduate studies, 7



courses are taught which are M.Sc. (Information Systems), M.Sc. (Physics), M.Sc. (Botany), M.Sc. (Chemistry) and many more.

Nawab Shah Alam Khan, Chairman, Anwar-ul-Uloom Educational Association is widely respected as one of the leading lights of education in general, and minority education in particular, in the country. A former Chairman of A.P. State Financial Corporation, Member of the Board of Management and Academic Senate of Osmania University and the Academic Council of Aligarh Muslim University, Nawab Shah Alam Khan has been the guiding spirit behind Anwar-ul-Uloom's growth and success. At the time that he took over the reins of the Anwar-ul-Uloom Educational Association more than three decades ago, the institutions under its aegis were in a state of neglect and stagnation.

He immediately got down to the task of creating academic ambience that the college lacked. This was followed up by a series of administrative and academic reforms that connected the academia with the world outside and made education significant and relevant. The introduction of Post- Graduate courses including M.B.A. in the late eighties is a measure of Nawab Shah Alam Kha's exemplary vision and foresight.

Under Nawab Shah Alam Khan's guidance and leadership The Anwar-ul-Uloom Educational Association has over the years, grown and ramified like a giant tree under whose tranquil shade many an institution thrives today. Of enormous significance in the Association's

history are the establishment of Anwar-ul-Uloom College of Engineering and Technology at Vikarabad, as also the setting up of Aizza College of Engineering & Technology at Mancherial, Nawab Shah Alam Khan College of Engineering & Technology, (under the aegis of Madrasa-i-Aizza). These institutions bear testimony to Nawab Shah Alam Khan's vision of empowering students from the minority community with a sound technical education, which would in turn, pave the way for a bright career and a prosperous future.

Nawab Shah Alam Khan envisions a future for Anwar-ul-Uloom where it stands on par with world leaders in the field of education. His dream for Anwar-ul-Uloom encompasses an umbrella organization whose institutions set benchmarks in education and scale new academic peaks.

A former Chairman of A.P. Minorities Commission, Director of Hyderabad Deccan Cigarette Factory and member of the Court of the Aligarh Muslim University, he was chosen as member of the High Power Committee formed under the Ministry of Human Resource Development to recommend policy on Minority Education by the previous UPA Government.

An educational par excellence, who continuously strives for the empowerment of the community through need based education. He is well versed with the various legal aspects of the educational rights of minorities guaranteed under the constitution of India and is always in the forefront to fight for preservation of educational rights of the

minorities. He was actively involved in fighting the case of minority educational rights in Supreme Court which culminated in the historic land mark TMA Pai judgment of the Supreme Court of India.

**Mehboob Alam Khan, Honorary Secretary**

He is the Honorary Secretary and Correspondent for all the institutions functioning under the aegis of Anwar-ul-Uloom Educational Association. He is also the Secretary of Madrasa-i-Aizza Educational Society which runs the Madrasa-i-Aizza, Neo School Aizza, Aizza College of Engineering and Technology and Nawab Shah Alam Khan College of Engineering and Technology. He is also the Secretary for Mumtaz Yaruddowla Wakf which administers schools, Degree College and an Engineering College. These institutions have witnessed tremendous growth which bears testimony to his untiring efforts to expand the horizons of education for the society in general and the minorities in particular.

**Mazher Uddin Farooqui, Principal**

A postgraduate in Commerce, Mr. Mazher Uddin Farooqui was appointed as principal of the college since 1987. He has participated in many seminars and symposiums on commerce and the concept of autonomy of colleges promoted by the University Grants Commission. He underwent one month training in administration and academics at National Institute of Educational Planning and Administration New Delhi.



25 years of experience as a Principal. He is only the Principal holding this position in the entire State with an excellent efficiency record as per the University Grant Commission norms

### **PROFILE OF ENGLISH DEPARTMENT**

The Department of English Anwarul Uloom College has a long and hoary history. It has had the privilege of being the parent department of many stalwarts and luminaries in the past including Mr. A.M Vatcha, the late Mr. G.S Sharma and Dr. R N Manvi among several others.

The department was established in 1956 when Anwarul Uloom College was a fledgling institution beginning to carve a niche for itself in the academic landscape of the twin cities. Over the last six decades, the department has grown in strength and stature and today is instrumental in developing the Communication Skills of the students.

The objective of the faculty members is to empower students from diverse groups with language skills which are essential for their placement and progress. Needless to say Anwarul Uloom College serves a large number of students who come from under privileged strata of the society, predominantly from the Muslim Minority Community.

The Department seeks to empower students with the requisite knowledge base and communication skills which would help them seek various opportunities of employment or pursue higher studies. Computer-aided teaching strengthens and deepens the learning process.

## INFRASTRUCTURE

### 1. INFRASTRUCTURE DETAILS, No. of floors,

- i) Degree Building – Ground Floor + 4 Floors
- ii) Post Graduation – Ground Floor + 4 Floors
- iii) Library Building – Ground Floor + 1 Floor

### 2. Details Of All Departments – College has 22 Departments

#### Policy for monitoring and utilizing physical, academic and support facilities.

The management is progressive, development oriented, and innovative in its approach. It provides, maintains, and expands teaching-learning resources, student support facilities, and assists in physical and technological expansion and up-gradation of infrastructure with necessary budget allocation.

In administration, accounts, exams, admission wings of the college, various modules of e-governance are being implemented and updated regularly from time to time. In accordance with the guidelines of statutory bodies, standard operating procedures, rules and regulations are codified for different wings of the college for smooth functioning and delivery of results in the organization. Teaching and learning are updated regularly as per employment and industry needs. Regular meetings of HODs and feedbacks are obtained from the stakeholders and omissions and commissions are rectified. Best practices adopted in one department are extended to all other departments for implementation. Libraries, laboratories, E-development, etc. are

regularly updated with latest books, e-resources and equipment with provision of sufficient budget. Management is supporting the faculty and the students by way of providing seed money for research, publications of papers, towards project, and for organizing extension activities. To look after the building maintenance and supervising the house keeping staff, full time engineer and caretaker has been appointed. For maintaining and upkeep of the computers, college has entered into AMC with the reputed firms. Each wing of the college is headed by the senior member and he is assisted with supporting staff to deliver the results. Sports wing is headed by Prof. and assisted by qualified physical director with sufficient budget, equipment, and talent at the disposal to give results. In various committees of college students, parents, and alumni are represented and their suggestions are considered by the authorities. The stakeholders are real participants in the developmental activities of the college. Regular internal and administrative audit of all the departments are conducted and shortcomings if any are communicated to the concerned for rectification. Full time IQAC Cell regularly updates and monitors the quality parameters of each department and of each faculty member. In this regard, faculty appraisal reports are obtained on regular basis by the IQAC and their performance status are communicated to the concerned for improvement. There is separate foreign student cell which functions as a single window forum for all the international students.



In short, the college functions as a single unit and provides innovative student facilities on various aspects that lead to all round development of the students. The college ensures that the resources available with the college are utilized to the best possible extent with the best possible results, with zero tolerance to the wastage of energy, time, and resources.

The College owns 2.5 acres of land in the heart of the city with a built-up area of 10240 Sq Mtrs. The College has 60 Class Rooms and 20 Laboratories, One UG & one PG Library, Rooms are spacious and conducive to learning, each class room has good lighting, enough fans and good ventilation. The College has a separate Physical Education Department with games and sports facilities. Some of the facilities provided for games and sports are:

- Gym Facilities
- Jumps pit
- Table Tennis
- Carom Boards
- Shuttle Court
- Chess
- Football Ground
- Cricket Ground( Net Practice Training)
- Basket Ball Court
- Volley Ball Court

RESEARCH AND DEVELOPMENT

College has a Research Centre and a Research Committee headed by a Director R & D to guide the staff

The Faculty Members have completed Five MRPs, few FDPs with assistance from UGC have also completed the projects, 25 teachers are awarded Ph.D, 13 are pursuing Ph.D, 14 teachers are awarded M.Phil and 5 are NET/SLET qualified and as many as 550 about research papers were publish in different Journals of repute with ISBN/ISSN.

**College provide budgetary allocation for Promotion of Research annually**

Name	University	Department
Dr.A.Vijaya Govind	RoyalSeema	Commerce
Mrs. Shobha Rani	Osmania	Commerce
Mrs.Yasmeen Banu	Arunachal	Commerce
Mr.Aijaz Khan	MANNU	Commerce
Mr.Zakir Hussain	RoyalSeema	Commerce
Mr.Ahmed Mohiuddin	RoyalSeema	Commerce
Mrs. Nasreen Sultana	RoyalSeema	Commerce
Ms.Qaiser Sultana	RoyalSeema	Commerce
Mr. Asim Khan	RoyalSeema	Commerce
Shaik Mitaigiri Rawoof	RoyalSeema	Computer Science

## **OBJECTIVES AND SCOPE**

The broad aims/benefits of the eco-auditing system would be

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Sustainable use of natural resource in the campus.
- Financial savings through a reduction in resource use

- Curriculum enrichment through practical experience
- Development of ownership, personal and social responsibility for the College campus and its environment
- Enhancement of College profile
- Developing an environmental ethic and value systems in young people

**DEPARTEMT HEADS MEETING HELD ON JUNE 24, 2021**

<b>S.No.</b>	<b>Department</b>	<b>Name of the H.O.D</b>
1	Arabic	Mr. Fayyazuddin
2	Biotechnology	Mrs. Nadeem Fatima
3	Botany	Dr. Sadia Fatima
4	Business Administration	Dr. Yasmeen Banu
5	Commerce	Dr. A.Vijaya Govind
6	Chemistry	Dr. Syeda Sameena Aziz
7	Computer Science	Dr. Ubaid Siddiqui
8	Computer Science & Engineering	Mr. Israr Ahmed
9	Economics	Dr. Neena Job
10	Electronics	Dr. Gulam Ahmed
11	English	Dr. Kausar Begum Khan
12	Hindi	Mrs. Mohi Fatima
13	History	Mr. K. Felix
14	Mathematics	Dr. Mohammed Salah Uddin
15	Microbiology	Ms. Hasana Khatoon
16	Nutrition & Dietetics	Mrs. Nazia Mohammedi
17	Physics	Mr. Afsar Ali
18	Political Science	Mrs. Asma Sadiah
19	Public Administration	Mrs. Viqarunnisa
20	Telugu	Mr. Mohd. Saleem
21	Urdu	Dr. Mogni Siddiqui
22	Zoology	Mrs. Maliha Afshan



## GREEN AUDIT PARTICIPANTS

On behalf of Institute:

Name	Position/Department
Principal	Mr. Mohd. Mazheruddin
Director	Mr. Ahmed Baig
Director Administration	Mr. Mohd. Habeeb Uddin Ahmed
Biotechnology	Mrs. Nadeem Fatima
Botany	Dr. Sadia Fatima
Chemistry	Dr. Syeda Sameena Aziz
Computer Science	Dr. Ubaid Siddiqui
Computer Science & Engineering	Mr. Israr Ahmed
Economics	Dr. Neena Job
Electronics	Dr. Gulam Ahmed
Political Science	Mrs. Asma Sadiah
Public Administration	Mrs. Viquarunnisa
Nutrition & Dietetics	Mrs. Nazia Mohammedi
Microbiology	Ms. Hasana Khatoon
Caretaker	Mr. Mohd. Abdul Wahed

On behalf of Green Foundation:

Name	Position	Qualification
Dr. S. Riazuddin Ahmed	Managing Director IOTA LABORATORIES	Ph.D. ANGRAU
Mr. Mohammad Siddiqui	Director Green Foundation	M.Sc. Environmental Management
Mr. K. Raisuddin	AQM Expert EPTRI Laboratory EPTRI, Hyderabad	M. Tech(WET) B.Tech. (Civil)
Mr. Farooq Azam	Director SITARA LABORATORIES	B.Sc.(Microbiology)

## **INPUTS PROVIDED BY THE COLLEGE AUTHORITIES TO THE GREEN AUDIT TEAM**

1. INFRASTRUCTURE DETAILS, No. of floors,
  - i) Degree Building – Ground Floor + 4 Floors
  - ii) Post Graduation – Ground Floor + 4 Floors
  - iii) Library Building – Ground Floor + 1 Floor
2. Details Of All Departments – College has 22 Departments

### **FACULTY LIST DEPARTMENTWISE**

<b>S. No.</b>	<b>FACULTY</b>	<b>Nos.</b>
1.	Commerce	33
2.	Business Administration	13
3.	Computer Science	4
4.	Computer Science & Engineering	6
5.	Electronics	1
6.	Botany	8
7.	Mathematics	10
8.	Physics	6
9.	Chemistry	11
10.	Economics	6
11.	History	4
12.	Political Sciences	3
13.	Public Administration	2
14.	Nutrition and Dietetics	12
15.	Bio-Technology	6

16.	Microbiology	3
17.	Zoology	5
18.	English	15
19.	Arabic	4
20.	Urdu	8
21.	Sports	2
22.	Library	2

**3. No. Of Class Rooms and No. of students sitting in each class room – 60**

**4. No. Of Students in each Department**

**i) UG 1<sup>st</sup> Year students – 1050**

**ii) UG 2<sup>nd</sup> Year Students – 1815**

**iii) UG 3<sup>rd</sup> Year Students – 1785**

**iv) PG 1<sup>st</sup> Year students – 248**

**v) PG 2<sup>nd</sup> Year Students – 255**

**vi) Intermediate 1<sup>st</sup> Year students – 109**

**vii) Intermediate 2<sup>nd</sup> Year Students – 129**

**5. No. of Staff Members and details of each department – 166**

**6. No. of Laboratories – 20**

**7. No. of Meeting Halls, Conference Halls – 6**

**8. Water facility both for daily usage and drinking for staff and students**

**i) 20,000 liters capacity overhead tank for PG and UG Buildings**

**ii) 3,000 liters capacity overhead tank for Management Buildings**

**iii) 3,000 liters capacity overhead tank for Pharmacy and MBA Buildings**

**iv) 5,000 liters capacity overhead tank for Drinking water purpose**

**10. No. of Bore wells and their water quality assessment**

**i) One Bore well with one inch pipe is available**

**11. No. of R.O. plants quality assessment periodically is done if so their reports  
Two R.O. plants at Boys gate and one at Pharmacy Building and they are assessed  
periodically approximately on quarterly yearly basis and R.O. output water reports  
enclosed in Green audit report**

**12. Drinking water facility to the staff and students – UG Building wise and PG  
Building wise drinking water dispensers are located at each floor**

**13. Parking Area details, No. of two wheelers and four Wheelers  
400 Two Wheeler parking area is allocated in front of college buildings and  
25 Four Wheeler parking area is allocated at inner Ground Floor**

**14. No. of students in each class room, ventilation facility**

**There are 60 class rooms and each class room has four windows with good  
Ventilation facility with wide exit doors**

**15. No. of fire extinguishing cylinders at each floors**

**Two Fire Extinguishing cylinders at Department of Chemistry**

**16. No. of Toilets for staff and students in each Floor**

**There are Toilets for staff and students in each Floor and details are given  
Below**

**i) Degree Building Ground Floor with 25 Urinals**

**ii) Degree Building First Floor with 9 toilets**

**iii) Degree Building Second Floor with 9 toilets**

**iv) Degree Building Third Floor with 9 toilets**

**v) Library Building with 1 toilet**

**vi) RJP Hall with 2 Toilets**

**vii) PG Building Ground Floor with 2 Toilets and 3 urinals**

**viii) PG Building First Floor with 2 Toilets and 3 urinals**

**ix) PG Building second Floor with 2 Toilets and 3 urinals**

**x) PG Building Third Floor with 2 Toilets and 3 urinals**

**xi) PG Building Fourth Floor with 2 Toilets**

**17. No. of stair cases and no. of Lifts in the infrastructure of college building in Working condition**

**i) Degree Building with Two Staircases**

**ii) PG Building with One Staircase**

**18. Waste disposing arrangements in the college building**

**i) Manual sweepers pick up and pack the garbage and put the garbage in garbage bins and transport the garbage through GHMC bins every morning on daily basis.**

**ii) Manual sweepers clean the premises of each floor of college buildings daily**

**19. Exit points in case of emergency from each floor**

**i) Degree Building with Two Large Staircases**

**ii) PG Building with One Large Staircase**

**20. Traffic congestion leading outside the college road**

**There is cement Roads around the college Buildings and No Traffic congestion leading outside noticed any time**

**21. Water quality assessment periodically is done if so their reports**

**Both drinking water and water from bore wells quality assessed periodically approximately on quarterly yearly basis and R.O. output water reports enclosed in Green audit report**

**22. Air quality assessment periodically is done if so their reports**

**Air quality is assessed by EPTRI, Telangana from January,2021 to July,2021 is included in Green Audit Report**

**23. Noise Pollution if any assessed by EPTRI, Telangana**



Noise Pollution quality is assessed by EPTRI, Telangana from January,2021 to July,2021 is included in Green Audit Report

#### **24. Waste dispose mechanism in chemistry laboratories**

- i) Dry and wet Chemical laboratories disposal are being separated in bins and disposed directly in ti GHMC garbage bins outside the college buildings**
- ii) Breakages of glass ware is recycled by proper methodology**
- iii) Water purification of used water by proper methodology**
- iii) Chemical Reagents from Laboratories are collected periodically**
- iv) Separation of various reagents used and disposed properly in separately**

#### **25. Awareness of environment conservation and protection**

- i) Students are Educated through NSS and NCC Units of the College regularly and teach them all about Environment Conservation and its Protection.**
- ii) Environmental Studies a compulsory Subject and Students are taught all about Environment its conservation and protection through theory and practical classes**

### **S u g g e s t i o n s**

- i) Periodical quarterly lectures by the college authorities to the students and staff members to be conducted to spread about Environmental awareness**
- ii) Periodical quarterly lectures by the college authorities to the students and staff members for cleanliness about their premises surroundings viz., class rooms, laboratories, libraries, toilets, staircases and vehicle parking area**
- iii) Every individual student and staff should be concerned about the surroundings and upkeep environment cleanliness**

### **EXECUTIVE SUMMARY**

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable

environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance.

Anwarul Uloom College, Mallepally, Hyderabad has already done internal green assessment and annual reports published for continual improvements; QAS Programme and doing their bid towards environmental protection and environmental awareness at local and global front. Audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. A questionnaire is used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.

## **AREAS OF IMPROVEMENT**

- **Environment Policy to be adopted by the College Campus.**
- **Water Meter should be installed and maintain the inventory of ground water extraction resource bore well.**
- **Stack height of DG set should be as per DG Rules**
- **Storage of chemicals like; paints, gums resins, oils, lubricants, acids etc. in designated place and safety/warning signs should be displayed.**
- **Internal inspection system should be developed for various aspects of environment available in campus**
- **Waste Management plan should be prepared for the campus.**
- **Display of environment awareness posters should be there in the prominent areas of campus.**

## **GREEN AUDIT/ENVIRONMENTAL AUDIT**

The areas of eco/environmental/green auditing to be followed/practiced by participating institutions:

- Waste Minimization and Recycling
- Greening
- Energy Conservation
- Water Conservation
- Clean Air
- Animal Welfare
- Environmental Legislative
- General Practices

Does any Environmental Audit conducted earlier?

The college has conducted the internal Green Audit under the Green Society of Anwarul Uloom college, Hyderabad with the staff and students of the college during 2018-19. The Annual reports records reviewed during the audit, Main focus of this is to bring awareness of environmental values in students and society. Now, the external audit for environment is awarded to Green Foundation and Iota Laboratories Services for a systematic way of monitoring the environmental eminence initiative, taken by College for environment protection.

**Where is the campus located?**

Anwarul Uloom college, Hyderabad is located at Mallepally, Hyderabad – 500 001 T.S.



**What is the total permanent population of the Institute?**

	Male	Female	Total
Students UG	3022	1628	4650
Students PG	231	272	503
Students Intermediate	102	136	238
Teachers	72	92	164
Non-Teaching Staff	25	15	40
Sub Total	3715	2143	5595

Approximate Number of Visitors (Per day) 92

What is the total number of working days of your campus in a year? 322

**Which of the following are available in your institute?**

1 Garden area	Not Available
2 Play ground	Available

3 Kitchen	Not Available
4 Toilets	Available
5 Garbage Or Waste Store Yard	Available
6 Laboratory	20 Available, only Computers lab
7 Canteen	Not Available
8 Hostel Facility (numbers)	Not Available
9 Guest House	Not Available

**Which of the following are found near your institute?**

1 Municipal dump yard	Not in vicinity of institute
2 Garbage heap	No Garbage heaps
3 Public convenience	Yes
4 Sewer line	0.5 km sewer line within campus
5 Stagnant water	No stagnant water
6 Open drainage	No
7 Industry – (Mention the type)	No
8 Bus / Railway station	Faraway from campus
9 Public halls	Yes

**WASTE MINIMIZATION AND RECYCLING**

1.	Does your institute generate anywaste? If so, what are they?	Yes, Solid waste, Canteen waste, paper waste, plastic waste, toiletry waste, Horticulture Waste, etc.			
2.	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	Bio Degradable	Non-Biodegradable	Hazardous	others
		40kg	4kg	1kg	<6kg



<p><b>3.</b></p> <p>How is the waste generated in the institute managed? By</p> <p>1 Composting 2 Recycling 3 Reusing 4 Others (specify)</p>		<p>5 composting pits are there in campus, Reuse of one side printed Paper for internal communication. Sewage water is discharged to public Sewer. Domestic Waste is given to Municipal Corporation. Two types of Waste bins are provided at campus for biodegradable and non-biodegradable waste. Horticulture waste is also given to Municipal Corporation. Incinerator is used for managing sanitary waste.</p>
<p><b>4.</b></p>	<p>Do you use recycled paper in institute?</p>	<p>Yes, in academic evaluation works</p>
<p><b>5.</b></p>	<p>Do you use reused paper in institute?</p>	<p>Yes</p>
<p><b>6.</b></p>	<p>How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.</p>	<p>Yes, Green Society carried out numerous activities. Recycling campaigns, e waste management, Anti- plastic campaigns, Varsha Vriksharopan, sustainable goal awareness programme.</p>
<p><b>7.</b></p>	<p>Can you achieve zero garbage in your institute? If yes, how?</p>	<p>Yes, as per new waste management rules all kind of waste is managed in an adequate manner without any deviation.</p>

### GREENING THE CAMPUS

<p><b>8.</b></p>	<p>Is there a garden in your institute?</p>	<p><b>Yes, about 1.5 Acre is the Green Area.</b></p>	
<p><b>9.</b></p>	<p>Do students spend time in the garden?</p>	<p>2-4 Hours during winters</p>	
<p><b>10.</b></p>	<p>Total number of Plants in Campus</p>	<p>Plant type</p>	<p>Approx. number</p>
		<p>Trees</p>	<p>More than 350</p>
		<p>Shrubs</p>	<p>More than 1000</p>

		Grass Cover	1.5 Acre
11.	Suggest plants for your campus. (Trees,vegetables, herbs, etc.)	Ashoka, Ficus Religeosa, Boganvella, Alovera, Azadirachta indica , and many more as per geographical regime.	
12.	Is the College campus have any Horticulture Department	Yes	
	Number of Staff working in Horticulture Department	Five Gardeners	
13.	Number of Tree Plantation Drives organizedby College per annum. (If Any)	Yes, Three Tree Plantation Drives are Organized Annually. 50+ trees and 100+ shrubs planted in this financial year.	
14.	Number of Trees Planted in Last FY.	80	
	Survival Rate	90%	
15.	Plant Distribution Program for Students andCommunity	Yes, Seed Bank is developed and, Saplings are distributed to Students and visitors at various Occasions.	
16	Plant Ownership Program	No	

## ENERGY

17.	List few ways that you use energy in your institute. (Electricity, LPG, firewood, others).Using this list, try to think of ways that you could use less energy every day.	Electricity is saved by use of LED bulbs for illumination, LPG is saved by use of Pressure cookers for cooking food. Alternate source of energy i.e. Solar Panel Installed.
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<p><b>18.</b> Are there any energy saving methods employed in your institute? If yes, please specify. If no, suggest some</p>	<p>Yes, Renewable source of energy through solar plant (910 KW) in commissioning phase. 320 Watt is operational.</p> <p>Messages will be displayed at various locations to aware the People about Energy Savings.</p> <p>Use of Natural Lights and Natural Ventilation are promoted.</p>
<p><b>19.</b> How many CFL/LED bulbs has your institute installed?</p>	<p>95 % of Total Conventional bulbs are replaced by LED Lights.</p>
<p><b>20.</b> Are any alternative energy sources employed / installed in your institute? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.) Specify.</p>	<p>Yes, photovoltaic cells for solar energy, energy efficient stoves</p>
<p><b>21.</b> Do you run “switch off” drills at institute?</p>	<p>Yes</p>
<p><b>22.</b> Are your computers and other equipment’s put on power-saving mode?</p>	<p>Yes, In Practice</p>
<p><b>23.</b> Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?</p>	<p>No</p>

## POWER CONSUMPTION

Table showed the power consumption details of during the year 2020-21

S.No	Month	Electricity Consumption (KVAH)
1	Jan, 2020	92,420.00
2	Feb, 2020	89,325.00
3	Mar, 2020	75,450.00
4	Apr, 2020	88,640.00

5	May, 2020	1,02,040.00
6	Jun, 2020	3,03,603.00
7	Jul, 2020	1,04,759.00
7	Aug, 2020	1,37,429.00
8	Sep, 2020	1,87,521.00
9	Oct,2020	1,32,470.00
10	Nov,2020	1,95,143.00
11	Dec,2020	1,78,047.00
12	Jan, 2021	1,75,462.00
13	Feb, 2021	1,55,098.00
14	Mar, 2021	86,720.00
15	Apr, 2021	55,504.00
16	May, 2021	45,077.00
17	Jun, 2021	39,361.00
18	Jul, 2021	68,480.00
19	Aug,2021	66,540.00

**Energy consumption trend is in accordance with electricity readings captured by TST**

**Water Quality Assessment:**

To cater the water requirement for the campus, two bore wells and one open well water are used for the activities. However in summer, to cater the additional shortage of water, a tanker from outside are hired to satisfy the needs of campus activities. The total quantity of water required for drinking is assessed for a population of 5000 students is assessed as 25000 liters per day. For hygienic drinking water, RO plants are installed in each block. In order to provide portable drinking water there are 10 RO's at various locations in the campus. Civil Engineering department tests the water every month. Once in six months the water is tested by Iota Laboratories, Hyderabad. The committee inspects the working of filters monthly and the quality of water is verify for suitability once in three months.

**Recycling of waste water:**

(The wastewater developed in college campus is treated in campus and is used for watering of garden. The institute is does not have a Sewage

Treatment Plant (STP). It is suggested to install a STP with the capacity of 2,10,000 liters capacity per day.) transferred to suggestion.

The quantity of wastewater generated in the campus should be assessed as per IS standards (**IS 9868/1981**) are given below:

**The Demand of Water for Anwarul Uloom College Campus**

<b>Sl No.</b>	<b>Location</b>	<b>Student strength</b>	<b>IS demand</b>	<b>Water Quantity</b>
1	Hostel	700	135 lpcd	94500 lpcd
2	Canteen	1000	180 lpcd	180000 lpcd
3	Institute	5000	45 lpcd	225000 lpcd
<b>Total</b>				<b>499500 lpcd</b>

The sewage treatment plant is not available may be considered by the college authorities for installation. Their services include viz.,

- a) They shall provide skilled operators for all three shifts to operate monitor and ensure consistent performance of the STP.
- b) They shall monitor activities of STP and report the same to his Plant Engineer regularly with all the necessary supporting documents like plant Log sheet, checklist etc.
- c) They shall provide all necessary chemicals.
- d) They shall carry out the cleaning of tanks, Sludge drying beds as and when required.
- e) They shall provide the lubricants and consumables required during operation and maintenance of the STP.
- f) They shall carry out preventive maintenance of the equipment as per schedule.
- g) All repairs like rewinding of motors, repair of gear boxes, pumps spares and blower, accessories, bearings, lobes will be carried out by you. However the spares required will be provided by NMIT.
- h) It will be their responsibility to maintain clean and tidy environment



surrounding STP area.

- i) It shall be their responsibility to test the treated water sample (only one sample in a month) in a KSPCB approved Lab and get the report for monthly report to KSPCB.
- j) It shall be their responsibility to prepare and submit the Consent Application for water, Air and Hazardous waste every year. (Consent fees and other KSPCB Expenses will be met by Client).
- k) Their personnel who stay in the campus shall take security clearance and shall abide by the college rules and discipline.
- l) It shall be their responsibility to take action on all remarks and observation as and when raised by the representative of KSPCB.

Even though the firm tests the water sample every month, the department of Civil Engineering will analyze the water once in six months to oversee the activities of the contract person.

## **Water Quality Related Document and Assessment Report**



# IOTA LABORATORIES

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D. No. 11-3-744, Mallepally, Hyderabad – 500 001 Telangana, India  
Ph. No. 91-40-23342774, Mobile: 09848018706

## BORE WATER No. 1 ANALYSIS REPORT

**BORE WATER SAMPLES : ANWARUL ULOOM COLLEGE, HYDERABAD,**

Date of Collection of Water sample: 20.01.2021

Date of Receipt of Water sample: 20.01.2021

Date of Water Analysis Report: 25.01.2021

Sl. No.	PARTICULARS OF WATER CHARACTERISTICS	QUANTITY IN BORE WATER No.1	BIS Guidelines Value (maximum allowable)
1.	pH	7.92	6.50 to 8.50
2.	E.C. (dS/m)	0.875	3.125 dS/m
3.	TDS (PPM) OR mg/Lit	560.0	2000.0 mg/Lit
4.	Turbidity (NTU units)	< 0.50	No Turbidity
5.	CO <sub>3</sub> (Carbonates) (meq/Lit)	0.00	10.0 mg/Lit
6.	HCO <sub>3</sub> (Bicarbonates) (meq/Lit)	2.70 (164.7)	25.0 mg/Lit
7.	Cl (Chlorides) (meq/Lit)	4.80 (170.2)	1000 mg/Lit
8.	SO <sub>4</sub> (Sulfates) (meq/Lit)	6.25 (612.5)	400 mg/Lit
9.	Nitrate Nitrogen NO <sub>3</sub> -N (mg/Lit)	0.00	100 mg/Lit
10.	Ca + Mg (meq/lit) by EDTA Titration Method	3.20 (102.4)	300.0 mg/Lit
11.	Calcium (meq/Lit)	2.08 (41.6)	200.0 mg/Lit
12.	Magnesium (meq/Lit)	1.12 (13.44)	100.0 mg/Lit
Sl. No.	PARTICULARS OF WATER CHARACTERISTICS	QUANTITY IN BORE WATER No.1	BIS Guidelines Value (maximum allowable)
13.	Na (Sodium) (meq/Lit)	1.168 (26.90)	0.25 mg/Lit
14.	K (Potassium) (meq/Lit)	0.097 (3.78)	0.125 mg/Lit
15.	Phosphates (PO <sub>4</sub> ) meq/Lit	0.00	0.25 mg/lit
16.	Boron (B) mg/Lit	0.00	0.25 mg/Lit

17.	SAR (Sodium adsorption Ratio)	0.924	< 10.0
18.	R.S.C. (Residual Sodium Carbonate Ratio)	0.00	< 1.25
19.	Total Hardness as CaCO <sub>3</sub> (mg/Lit)	160.0	600 mg/Lit
20.	Alkalinity as NaCO <sub>3</sub> (mg/Lit)	135.0	600 mg/Lit
21.	Residual Chlorine (mg/Lit)	0.00	0.005 mg/lit
22.	Fluoride (mg/lit)	0.10	1.5 mg/Lit
23.	Mineral Oil (mg/Lit)	0.00	0.0 mg/Lit
24.	Sediment (mg/Lit)	0.00	No Colloidal particles
25.	Pesticides (mg/Lit)	0.00	0.001 mg/Lit
26.	Bacteria (E. Coli) MPN/100 ML)	NIL	0.0 (E. Coli) MPN/100 ML)
27.	Colour	Colourless	Colour less
28.	Taste	Not Palatable	Agreeable
29.	Odour	NIL	No Odour
30.	Water Class	C3 S1	Up to C3S1

(Dr. S.RIAZUDDIN AHMED)  
IOTA LABORATORIES, HYDERABAD



## IOTA LABORATORIES

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**BORE WATER No. 2 ANALYSIS REPORT**

**BORE WATER SAMPLES : ANWARUL ULOOM COLLEGE, HYDERABAD,**

Date of Collection of Water sample: 15.07.2021

Date of Receipt of Water sample: 15.07.2021

Date of Water Analysis Report: 18.07.2021

Sl. No.	PARTICULARS OF WATER CHARACTERISTICS	QUANTITY IN BORE WATER No.2	BIS Guidelines Value (maximum allowable)
1.	pH	7.85	6.50 to 8.50
2.	E.C. (dS/m)	0.820	3.125 dS/m
3.	TDS (PPM) OR mg/Lit	524.8	2000.0 mg/Lit
4.	Turbidity (NTU units)	< 0.50	No Turbidity
5.	CO <sub>3</sub> (Carbonates) (meq/Lit)	0.00	10.0 mg/Lit
6.	HCO <sub>3</sub> (Bicarbonates) (meq/Lit)	2.00 (122.0)	25.0 mg/Lit
7.	Cl (Chlorides) (meq/Lit)	4.40 (156.0)	1000 mg/Lit
8.	SO <sub>4</sub> (Sulfates) (meq/Lit)	3.75 (367.5)	400 mg/Lit
9.	Nitrate Nitrogen NO <sub>3</sub> -N (mg/Lit)	0.00	100 mg/Lit
10.	Ca + Mg (meq/lit) by EDTA Titration Method	2.70 (86.4)	300.0 mg/Lit
11.	Calcium (meq/Lit)	1.76 (35.2)	200.0 mg/Lit
12.	Magnesium (meq/Lit)	0.945 (11.34)	100.0 mg/Lit
13.	Na (Sodium) (meq/Lit)	1.071 (24.63)	0.25 mg/Lit
14.	K (Potassium) (meq/Lit)	0.094 (3.67)	0.125 mg/Lit
15.	Phosphates (PO <sub>4</sub> ) meq/Lit	0.00	0.25 mg/lit
Sl. No.	PARTICULARS OF WATER CHARACTERISTICS	QUANTITY IN BORE WATER No.2	BIS Guidelines Value (maximum allowable)
16.	Boron (B) mg/Lit	0.00	0.25 mg/Lit
17.	SAR (Sodium adsorption Ratio)	1.069	< 10.0
18.	R.S.C. (Residual Sodium Carbonate Ratio)	0.10	< 1.25
19.	Total Hardness as CaCO <sub>3</sub> (mg/Lit)	135.0	600 mg/Lit
20.	Alkalinity as NaCO <sub>3</sub> (mg/Lit)	100.0	600 mg/Lit

21.	Residual Chlorine (mg/Lit)	0.00	0.005 mg/lit
22.	Fluoride (mg/lit)	0.10	1.5 mg/Lit
23.	Mineral Oil (mg/Lit)	0.00	0.0 mg/Lit
24.	Sediment (mg/Lit)	0.00	No Colloidal particles
25.	Pesticides (mg/Lit)	0.00	0.001 mg/Lit
26.	Bacteria (E. Coli) MPN/100 ML)	NIL	0.0 (E. Coli) MPN/100 ML)
27.	Colour	Colourless	Colour less
28.	Taste	Not Palatable	Agreeable
29.	Odour	NIL	No Odour
30.	Water Class	C3 S1	Up to C3S1

(Dr. S.RIAZUDDIN AHMED)  
IOTA LABORATORIES, HYDERABAD



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**SITARA LABORATORIES**

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**Ph. No. 91-40-2451 4259, Mobile: +91 998 930 7374**  
**Regd. No. /2019**

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**REVERSE OSMOSIS OUTPUT WATER ANALYSIS REPORT**

Date of Collection of Water sample: 21.07.2021

Date of Receipt of Water sample: 21.07.2021

Date of Water Analysis Report: 24.07.2021

Sl. No.	PARTICULARS OF WATER CHARACTERISTICS	QUANTITY IN R.O. OUTPUT WATER	BIS Guidelines Value (maximum allowable)
1.	pH	6.50	6.50 to 8.50
2.	E.C. (dS/m)	0.045	3.125 dS/m
3.	TDS (PPM) OR mg/Lit	29.0	2000.0 mg/Lit
4.	Turbidity (NTU units)	< 0.50	No Turbidity
5.	CO <sub>3</sub> (Carbonates) (meq/Lit)	0.00	10.0 mg/Lit
6.	HCO <sub>3</sub> (Bicarbonates) (meq/Lit)	0.30 (183)	25.0 mg/Lit
7.	Cl (Chlorides) (meq/Lit)	1.00 (35.45)	1000 mg/Lit
8.	SO <sub>4</sub> (Sulfates) (meq/Lit)	0.25 (24.5)	400 mg/Lit
9.	Nitrate Nitrogen NO <sub>3</sub> -N (mg/Lit)	0.00	100 mg/Lit
10.	Ca + Mg (meq/lit) by EDTA Method	0.30 (96.0)	300.0 mg/Lit
11.	Calcium (meq/Lit)	0.195 (39.0)	200.0 mg/Lit
12.	Magnesium (meq/Lit)	0.105 (1.26)	100.0 mg/Lit
13.	Na (Sodium) (meq/Lit)	0.195 (4.485)	0.25 mg/Lit
14.	K (Potassium) (meq/Lit)	0.023 (0.897)	0.125 mg/Lit
15.	Phosphates (PO <sub>4</sub> ) meq/Lit	0.00	0.25 mg/lit
16.	Boron (B) mg/Lit	0.00	0.25 mg/Lit
17.	SAR (Sodium adsorption Ratio)	0.504	< 10.0
18.	R.S.C. (Residual Sodium Carbonate Ratio)	0.00	< 1.25

19.	Total Hardness as CaCO <sub>3</sub> (mg/Lit)	15.0	600 mg/Lit
20.	Alkalinity as NaCO <sub>3</sub> (mg/Lit)	15.0	600 mg/Lit
21.	Residual Chlorine (mg/Lit)	0.00	0.005 mg/lit
22.	Fluoride (mg/lit)	0.00	1.5 mg/Lit
23.	Mineral Oil (mg/Lit)	0.00	0.0 mg/Lit
24.	Sediment (mg/Lit)	0.00	No Colloidal particles
25.	Pesticides (mg/Lit)	0.00	0.001 mg/Lit
26.	Bacteria (E. Coli) MPN/100 ML)	NIL	0.0 (E. Coli) MPN/100 ML)
27.	Colour	Colourless	Colour less
28.	Taste	Palatable	Agreeable
29.	Odour	NIL	No Odour
30.	Water Class	C1 S1	Up to C3S1

NIL = Absent      Values in parentheses are in mg/Lit) or PPM

**REMARKS:** The above R.O. output water sample received from M/S. Safe Aqua, Asifnagar, Hyderabad, T.S. tested for the above physical, chemical and biological parameters. This R.O. water contains very little amounts of calcium, magnesium and sodium bicarbonates and chlorides under BIS permissible limits. This water does not contain any Bacteria in it. This R.O. water is excellent for drinking purpose.

(FAROOQ AZAM)  
DIRECTOR  
SITARA LABORATORIES  
HYDERABAD

## AIR QUALITY ASSESSMENT REPORT

**2020 & 2021**

### Air Quality & Noise Quality Monitoring:

Since air quality plays a vital role for good health. Air Quality monitoring instrument is used to monitor quarterly the criteria pollutants. The most important air quality

parameters, which are measured, are NO<sub>2</sub>, SO<sub>2</sub>& PM<sub>10</sub>. The other criteria pollutants such as Ozone, Carbon Monoxide and Lead are not measured because there are no nearby Industries located near the institute, which are emitting these pollutants. Noise equally plays a vital role in the environment, hence noise measurement are also done at the institute quarterly.

Monthly Air Quality Index Values of Hyderabad city for Jan to June - 2019						
Location	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
<b>Hyderabad Stations- NAMP Stations - 24 Hrs</b>						
<b>Stations (24 hours)</b>						
Balanagar , CITD office	182	175	157	149	139	118
Uppal, Modern food Industry, IDA	139	124	126	92	108	84
Jubilee Hills, Police station	151	147	125	105	104	92
Paradise, HMWS &SB Pump house	133	137	108	113	114	101
Charminar, TSRTC bus station	137	136	110	100	109	83
Jeedimetla, Industrial Association building	161	162	153	121	120	105
<b>SAAQM Stations (8hours)</b>						
Abids, Police station	115	98	105	95	108	100
KBRN Park, DFO office	85	70	64	58	70	43
Langar House, Police	100	91	100	97	102	83

**Monthly Air Quality Index Values of Hyderabad city for  
Jan to June - 2019**

<b>Location</b>	<b>Jan-21</b>	<b>Feb-21</b>	<b>Mar-21</b>	<b>Apr-21</b>	<b>May-21</b>	<b>Jun-21</b>
<b>Hyderabad Stations- NAMP Stations - 24 Hrs</b>						
<b>Stations (24 hours)</b>						
Madhapur, Shilpa Kalavedika	109	97	106	92	104	77
MGBS, Bus stand	112	96	108	83	105	94
Chikkadapally, Lepakshi Emporium	108	85	79	77	93	79
Kukatpally, JNTU	142	126	113	91	101	77
Nacharam, Police station	107	92	89	80	96	64
Rajendranagar, NG Ranga Agricultural University	92	95	79	56	53	49
Sainikpuri, MRO office	71	75	66	69	84	85
Buddha Purnima Project office, Tank Bund	99	82	75	72	67	63
Shameerpet, MRO office	71	58	52	78	83	74
<b>CAAQMS Stations</b>						
HCU	145	112	106	91	116	61
Sanathnagar	211	111	89	69	77	52

**Air quality was assessed from January,2021 to July,2021 with the help of EPTRI Hyderabad and detailed reports included in the Appendices**

## WATER CONSERVATION

24.	List uses of water in your institute	Basic usage of water in campus are; Drinking, Gardening, Kitchen & Toilets, and Others. And total consumption is 411.75 KL/month
25.	How does your institute store water? Are there any water saving techniques followed in your institute?	Underground Water tank installed for storage of water. Avoid overflow of water controlled valves are provided in water supply system.
26.	If there is water wastage, specify why and How can the wastage be prevented /stopped?	No
27.	Locate the point of entry of water and point of exit of waste water in your institute.	Entry- Water comes from MCG water supply at campus Exit- From Water Drainage System to the back gate of campus
28.	Write down few ways that could reduce the amount of water used in your institute	By Following ways: 1. RWH, Close the taps after usage 2. Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage 3. Water Conservation awareness for new students

29.	Record water use from the institute water meter for six months (record at the same time of each day). At the end of the period, compile a table to show how many litres of water have been used.	Calculation on the basis of Water Bill is shown below.
30.	Does your institute harvest rain water?	Six number of Modern rain water harvesting system are available.
31.	Is there any water recycling System.	Yes, RO waste water is stored in tank and is attached to toilet supply

### WATER CONSUMPTION:

The college has water connection with Hyderabad Metro Water and Sewerage Board of GHMC with CAN No. 043221374 in the Name of Mr. MOHD. MAZHERUDDIN Principal, Anwarul Uloom College, Mallepally, Hyderabad with a monthly payment of Rs.2,233.00

S.No	Month	Water Consumption (KL)
1.	Jul, 2020	200 KL Rs. 2,233.00
2.	Aug, 2020	200 KL Rs. 2,233.00
3.	Sep, 2020	200 KL Rs. 2,233.00
4.	Oct,2020	200 KL Rs. 2,233.00
5.	Nov,2020	200 KL Rs. 2,233.00
6.	Dec,2020	200 KL Rs. 2,233.00
7.	Jan, 2021	200 KL Rs. 2,233.00
8.	Feb, 2021	200 KL Rs. 2,233.00
9.	Mar, 2021	200 KL Rs. 2,233.00
10.	Apr, 2021	200 KL Rs. 2,233.00
11.	May, 2021	200 KL Rs. 2,233.00
12.	Jun, 2021	200 KL Rs. 2,233.00
13.	Jul, 2021	200 KL Rs. 2,233.00
14.	Aug, 2021	200 KL Rs. 2,233.00

## CLEAN AIR

32	Are the Rooms in Campus are Well Ventilated?	Yes				
33	Window Floor ratio of the Rooms	Very Good				
34	Provide details of school-owned motorized vehicles?	Buses	Cars	Vans	Other	Total
	No. of vehicles	1	--	--	--	--
		Non-operational				
	No. of vehicles more than five years old	--	--	--	--	--
	No. of Air conditioned vehicles	--	--	--	--	1
	PUC done	--	--	--	--	--
35	Specify the type of fuel used by your school's vehicles:	Total				
	Diesel	--				
	Petrol	--				
	CNG	--				
	LPG	--				
	Electric	--				
36	Air Quality Monitoring Program (If Any)	No monitoring is being done				
37	Students suffer from respiratory ailments? (If Any)	No				
38	Details of Genset	Yes, 1 Number of Genset - model, Kirloskar, 82KVA; The capacities of DG is (60) KVA. Acoustic enclosure canopy and adequate stack height is under planning				



42	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
43	Does your institute have any rules to protect the environment? List possible rules you could include.	They have banned single use plastic. Their environment policy includes awareness, and environmental conservation efforts through Green Society and Department of Environmental Sciences. All under graduates are studying the paper of Environmental Sciences, prescribed by UGC.
44	Does Environmental Ambient Air Quality Monitoring conducted by the Institute?	NA
45	Does Water and Wastewater Quality monitoring conducted by the Institute?	Yes
46	Does stack monitoring of DG sets conducted	Yes

## GENERAL

50	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
51	Does your institute have any rules to protect the environment? List possible rules you could include.	Yes, there are some rules like e banned single use plastic. Their Environmental Policy includes awareness and environmental conservation.

52	Does housekeeping schedule in your campus?	Yes, Swatch Bharat movement
53	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes, Periodically pollution reduction, plantation, energy conservation awareness campaigns carried out by institute
54	Does Important Days Like World Environment Day, Earth Day, and Ozone Day etc. eminent in Campus?	Yes
55	Does Institute participated in National and Local Environmental Protection Movement?	Yes, Swatch Bharat Abhiyan by students at campus.
56	Does Institute has any Recognition/certification for environment friendliness?	No
57	Does Institute using renewable energy?	Yes
58	Does Institution conducts a green/environmental audit of its campus?	Yes, This is first environmental audit done by the College.
59	Has the institution been audited / accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	Yes, NAAC grade A

**BEST PRACTICES/ INITIATIVES**

## FOR ENVIRONMENT

<p><b>A</b></p>	<p><b>Renewable Energy</b>  <b>Solar panel to be installed at the top of Anwarul Uloom College, Mallepally. A clean source of energy is utilized at campus. Efforts towards Carbon Neutrality</b>  <b>The capacity of 910 KW Solar plant on building roofs is commissioned and will be operational in six month that will supply approx. 30% of total power in campus.</b></p>	<p>Efforts are being made to install a large solar plant at <b>Anwarul Uloom College, Mallepally, Hyderabad with a firm at Bangalore</b></p>
<p><b>B</b></p>	<p><b>Flora and Fauna Conservation.</b></p>	<p>Since there is no plenty of space Flora and Fauna its conservation is not possible at this college. However few medicinal plants are being grown in balcony, terrace and outside the college buildings</p>
<p><b>C</b></p>	<p><b>Tree Plantation Drives</b>  Two Drives Annually as well as Every Guest is honored by Tree Plantation at Campus.</p>	<p>Yes, periodically the plantation drives by students and staff of campus are taken out for learning and plantation.</p>
<p><b>d</b></p>	<p><b>Ground Water Recharge</b>  15 units of Rain Water Harvesting System.</p>	<p>Yes, 100% recharge of the rain water</p>
<p><b>E</b></p>	<p><b>Pollution Reduction</b> Personal Vehicles (Students) not allowed at campus</p>	<p>Reduction in Air Pollution through vehicular emission.</p>
<p><b>F</b></p>	<p><b>E Waste Management</b>  Collection of e-waste by staff</p>	<p>E waste is sent to the authorized recyclers for adequate disposal</p>

<b>G</b>	<b>Solid Waste Management</b> Lifting of garbage from campus on alternate day by	Yes, different mechanisms for proper disposal and recycling of e-waste,
	Municipal Corporation.	plastic waste, biodegradable waste and MSW
<b>H</b>	<b>Adoption of Village/society</b> CSR	No, but the General Environmental awareness campaigns like Beat the Plastic initiated by campus.
<b>I</b>	<b>Water Conservation</b>	Yes, water saving push taps fitted in the drinking water zone and the toilets to avoid the wastage. They are re-using RO waste water in their washrooms.
<b>j</b>	<b>Corporate Resource Center (CRC)</b>	Anwarul Uloom College premises Corporate Resource Center (CRC) is dedicated to nurturing future leaders

## **BEST PRACTICES**

### **1. Earn while learn**

Core element of teaching and learning is skill development and placement while devising courses this aspects is given priority and syllabus are updated and revised keeping in view needs and requirements of society and industry. The suggestions given by the stakeholders are also reflected in teaching learning process. The Institution introduced skill based value added courses to enhance the employment. The institution also has collaborations and linkages with placement agencies. Job melas are organized for student and placements are provided to them. In addition to these coaching classes, guidance and counselling are provided to the students for

competitive examinations conducted by state, central government organizations. Prospective students for job are provided with soft skill training, training in basic skills of computers and training for facing the job interviews.

## **2. Mentoring**

Mentoring of students is an essential feature to render equitable service to all our students having varied background. Student-mentorship has the following aims:

1. To enhance teacher-student contact hours
2. To enhance students' academic performance and attendance
3. To minimize student drop-out rates
4. To identify and understand the status of slow learners and encourage advanced learners
5. To render equitable service to students.

The institute has followed the suggestion made by IQAC of college to introduce the mentoring system. The importance of integrating the system for enhancing students' performance is a common resolution adopted by a meeting of the teaching faculty. The system was promptly and effectively put into practice with a wide diversity in students in regard to educational and economic background, the system promises to provide a better understanding of individual students and bring out their highest potential. It also appears to be the most effective method/weapon for mitigating hardships of those students who are vulnerable to drop-out from studies.

The IQAC had taken the initiative of implementing the mentoring of students. Students are categorized based on the streams of studies and also according to their core subjects. They are divided into groups up to a maximum of 30. Each group is assigned to a teacher-mentor who would perform mentoring duties for the allotted group. A Mentoring Format with guidelines is prepared by the IQAC to ensure uniformity.

## **3. Outcome-based Education (OBE)**

College has adopted Outcome-Based Education (OBE) system which is a student-centric where in the objectives of the course and the programme outcomes are

predetermined and teaching and learning processes and delivery is according to the set objectives and the students are assessed on the basis of predetermined outcomes. At the end of the programme, feedbacks of the stakeholders are taken on the basis of objectives and after analyzing their feedbacks weaknesses are identified and suggestions are reflected while designing the course and the programme for the ensuing year.

## **DISTINTIVE FEATURES OF THE COLLEGE**

- 1. It is an autonomous private affiliated college of Osmania University Hyderabad and accredited with 'A' grade by NAAC. It is the first college in the history of erstwhile Andhra Pradesh and Telangana to establish a college under Muslim Minority. About 20% of the Students are from first generation background.**
- 2. The vision, priority and thrust area of institution is to inspire, guide, educate the students for their holistic personality development whereby they become informed, skilled, and contribute their might for nation building. Emphasis is laid on creative thinking, scientific temper and the thirst for inquiry. Each student is advised to excel at least in one field of his liking and choice. Students are motivated to follow the principle of earn while you learn and do not become a financial burden on the family. One of distinctive feature of the students of this college is that they have an objective of finding a job in the Gulf countries. The reason being that one of their kith and kin are already working there and will help in finding a job there. Hence a large number of students get jobs in the gulf region and thus do not become a burden on local job market and do earn foreign exchange for the country.**
- 3. Academic autonomy at the UG & PG level: Academic autonomy at the UG & PG level enables Anwar Uloom College to review and revise curriculum according to the needs of the stakeholders, innovative programs coupled with highly qualified faculty have enabled Anwarul Uloom College to achieve improved standards of teaching and learning.**
- 4. Infrastructure: The College is located in the heart of the city of Hyderabad on a campus spreading over 3 acres. There are numerous blocks housing ICT enabled**



classrooms, laboratories with new age equipments, computer lab with latest software, Digital library and E- Learning Resources, Seminar halls with overhead projectors, Language Lab with latest software, Commerce Lab and ample parking space with a built p area of 11, 550 sq. mtrs.

5. Remedial Teaching for weak Students: Sufficient care is taken by way of remedial teaching for academically weak students. Many departments have organized remedial coaching for the students who need special care. Sometimes special classes are arranged during holidays.
6. Orientation and refresher courses: The teachers of the college are regularly deputed to orientation or refresher courses to update their knowledge.
7. NCC activities: The College has an active NCC unit with 200 boy and girl cadets. Rigorous training is given to the cadets of pass "B" and "C" certificate examination. NCC cadets also attend several prestigious camps, including Republic Day, National and Local parades and camps among others.
8. Games and Sports: Numerous games and sports activities are organized by the department of Physical Education. Our students have in the past participated in many games in inter college and inter university level tournaments and bagged many medals, particularly in cricket, football, volleyball, basketball, table tennis, chess etc.
9. NSS Activities: The College has two NSS units and the activities are conducted under the direction of the NSS program officer. NSS volunteers participate actively in several programs like the Green Run, tree plantation programs, National integration and communal harmony seminar and blood donation camps.
10. Grievance Redressal Cell: Any students/faculty member who has a complaint can ask for help and a senior teacher who forms a part of the GR cell advises and provides solution to the aggrieved.
11. Placement and Carriers Counseling Cell: The College has active cell for career counseling and placement enabling UG & PG students for carrier planning.

**PROCEDURE AND POLICY FOR MONITORING AND UTILIZING**

## **PHYSICAL, ACADEMIC AND SUPPORT FACILITIES.**

The management is progressive, development oriented, and innovative in its approach. It provides, maintains, and expands teaching-learning resources, student support facilities, and assists in physical and technological expansion and up-gradation of infrastructure with necessary budget allocation.

In administration, accounts, exams, admission wings of the college, various modules of e-governance are being implemented and updated regularly from time to time. In accordance with the guidelines of statutory bodies, standard operating procedures, rules and regulations are codified for different wings of the college for smooth functioning and delivery of results in the organization. Teaching and learning are updated regularly as per employment and industry needs. Regular meetings of HODs and feedbacks are obtained from the stakeholders and omissions and commissions are rectified. Best practices adopted in one department are extended to all other departments for implementation. Libraries, laboratories, E-development, etc. are regularly updated with latest books, e-resources and equipment with provision of sufficient budget. Management is supporting the faculty and the students by way of providing seed money for research, publications of papers, towards project, and for organizing extension activities. To look after the building maintenance and supervising the house keeping staff, full time engineer and caretaker has been appointed. For maintaining and upkeep of the computers, college has entered into AMC with the reputed firms. Each wing of the college is headed by the senior member and he is assisted with supporting staff to deliver the results. Sports wing is headed by Prof. and assisted by qualified physical director with sufficient budget, equipment, and talent at the disposal to give results. In various committees of college students, parents, and alumni are represented and their suggestions are considered by the authorities. The stakeholders are real participants in the developmental activities of the college. Regular internal and administrative audit of all the departments are conducted and shortcomings if any are communicated

to the concerned for rectification. Full time IQAC Cell regularly updates and monitors the quality parameters of each department and of each faculty member. In this regard, faculty appraisal reports are obtained on regular basis by the IQAC and their performance status are communicated to the concerned for improvement. There is separate foreign student cell which functions as a single window forum for all the international students. In short, the college functions as a single unit and provides innovative student facilities on various aspects that lead to all round development of the students. The college ensures that the resources available with the college are utilized to the best possible extent with the best possible results, with zero tolerance to the wastage of energy, time, and resources.

## **RECOMMENDATIONS**

- Formation of Environment Policy and communicated to all faculties and other staff members.
- Environmental Monitoring i.e. (Ambient Air Quality monitoring, Stack Monitoring of DG sets, Water monitoring need to be conducted by Delhi State Pollution Control Committee, approved laboratory with frequency of six month.
- Reduction in use of paper work by go digital system.
- Water Meter should be installed at institute for monitoring of water consumption for landscape.
- Increase in Environmental promotional activities for spreading awareness at campus.
- As practically feasible avoid use of personal vehicles inside the campus

## **Suggestions by the Green Audit Committee**

- i) Periodical quarterly lectures by the college authorities to the students and staff members to be conducted to spread about Environmental awareness**
- ii) Periodical quarterly lectures by the college authorities to the students and staff members for cleanliness about their premises surroundings viz., class rooms, laboratories, libraries, toilets, staircases and vehicle parking area**
- iii) Every individual student and staff should be concerned about the surroundings and upkeep environment cleanliness**
- iv) The Drinking water at various points of college has to be tested periodically for a period of every six months**
- v) Over Head Tanks to be cleaned periodically and disinfectant has to used and pumped and filled with fresh water**
- vi) Over Head Tanks water located at terraces of college Buildings have also to be tested periodically for a period of every six months**
- vii) Filters of R.O. Plants used for drinking water to in the college have to be replaced once in 3 months with new fresh filters and output water of these R.O. plants have to be tested periodically**
- viii) The Departments viz., Botany, Environmental Sciences, Microbiology, Nutrition and Dietetics and Bio Technology may play a major role in improving the environment and health of college premises**
- ix) In case of any mishap and Emergency the exit points are not sufficient to evacuate students and staff to a safer place. The College management should take appropriate action and provide feasibilities**

### **RECOMMENDATIONS / SUGGESTIONS**

#### **1. Water Conservation:**

- a) Provide information on water usage and savings to students/ staff through notices, screen savers in computer labs.
- b) Dry sweep or use a sponge broom when possible, instead of using a hose to clean floors, sidewalks, or other hard surfaces.
- c) Minimize/ reduce water usage by installing water saving faucets such as prismatic taps, tap aerators, jet sprays etc.
- d) Dual flushing system can be installed for toilet flushing which saves considerable amount of water.
- e) Grey water/ sewage recycling system can be installed for flushing toilets. This will reduce the fresh water footprint.
- f) installation of water flushing in urinals as in toilet can be considered to keep urinals afresh and clean.
- g) Water balance diagram can be prepared to quantify the water consumption by installing water meters at key points. Based on data gathered, appropriate measures can be taken to reduce the water consumption.

## **2. Paper and other Solid Waste Reduction:**

- a) inventories of all solid waste generated in the premises must be maintained.
- b) Enhance recycling. This can be done by creating a group where students can recycle books, personal clothes and other material to needy students. This can be an initiative under green program.
- c) Standard Operating Procedures (SOP) for Solid and E-waste management and for recycling of waste should be prepared and practiced. The SOP's may include collection, segregation and reuse of different types of wastes, if any (e.g. biodegradable waste for composting). This will help in safe disposal of waste to recycle agencies.
- d) Training as well as awareness programs should be organized on segregation of biodegradable waste and recycling of waste. Efforts

should be taken to inform students about recycling options and signs should be posted on appropriate bins indicating what could be dumped in each bin.

- e) The college can introduce online app, which can be useful for conducting internal exams, assignment/ reports submission. This system can also be used for displaying important notices, timetables.
- f) Paper usage shall be monitored to understand the impact of digitization in the facility.

### **3. Others:**

- a) Environmental advisory committee could be formed. The discussions/ information sharing among different departments can generate lot of ideas and awareness on green issues.
- b) Maintain minutes of meetings of environmental committees; evaluate the effectiveness of various environmental programs conducted by the institutes. Set annual targets for Green initiatives & monitor them closely. Create ' Green Champions'.
- c) Since each student uses computer lab, the screen savers can be set up for creating environmental awareness. (Ergonomics, water conservation etc.). A Short 30 second pop up can be displayed on computer screens when they are on standby mode. Or wallpapers informing students about environment conservation can be created.
- d) Consider detailed energy audit (energy consumption, thermal emission, visual comfort) and water audit.
- e) Adopt environmentally responsible purchasing policy, and work towards creating and implementing a strategy to reduce environmental impact of its purchasing decision.

## **CONCLUSIONS**

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. The Anwarul Uloom College has Environmental Committee for sustainable use of resources. The audit has identified several observations for making the campus premise more environmental friendly. The recommendations are also mentioned with observations for campus team to initiate actions.

The audit team opines that the overall site is maintained well from environmental perspective. There is no major observations but few things are important to initiate urgently are waste management records by monthly inventory of hazardous waste, rainwater harvesting recharge; water balance cycle and periodic inspection of buildings housekeeping and environment policy.



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- **The Petroleum Act: 1934 – The Petroleum Rules: 2002**
- **The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle Rules:1989 (Amended in 2005)**
- **Energy Conservation Act 2010.**
- **The Water [Prevention & Control Of Pollution] Act – 1974 (Amended 1988) & the Water(Prevention & Control of Pollution) Rules – 1975**
- **The Air [Prevention & Control Of Pollution] Act – 1981 (Amended 1987)  
The Air(Prevention & Control of Pollution) Rules – 1982**
- **The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules – 1981**
- **E-waste management rules 2016**
- **Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)**
- **Peglau R, 2005. ISO 14001 certification of the Environment Management systems (EMS) , Environmental Agency**
- **The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules,2008 (Amended 2016)**
- **The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)**
- **The Batteries (Management and Handling) rules, 2001 (Amended 2010)**
- **Relevant Indian Standard Code practices**
- **Internal Records of the Campus**
- **The Management Accountant, “Green Audit: how practically facing of changing business perspective towards nature? ” by Anandraj Saha, July 2012.**
- **Elkington, J. (1990) “It is practically Environmental Audit: A Green Filter for Company Policies”**

## SUMMARY OF GREEN SOCIETY

The Environment Society of Anwarul Uloom College, Mallepally, Hyderabad The Green Society, aims to spread awareness amongst students regarding the natural environment that they are a part of, and the impact of their everyday actions on it. We aim to protect the environment by spreading awareness to save energy, water, reducing use of disposable plastics, promoting reusable materials, planting saplings, etc. We believe that better world is not only within reach, but is being built today. We conduct environment friendly events which are not only intellectual, but also interactive and fun to attend. These include workshops, tree plantation drives, rallies, and online awareness campaigns, competitions such as Slam Poetry, Poster Making- online and offline and so on. The Society has also taken pride in being eco-friendly in every little way possible, starting from our paper free, online council elections. The Green Society currently has over 300 students under its wing.

The green society focuses on utilizing the power of social media platforms for spreading awareness regarding environment conservation and protection. It has an active *facebook* and *Instagram* page on which all the events of the society and environment related posts are uploaded time to time. Approximately 33000 people thereby creating awareness amongst a larger community.

AWARENESS BUILDING CUM ACTION			
Herbal garden	250 medicinal plants planted	Learning about herbs cumgardening	Learning through action
'seeds of hope'	Internationally acclaimed gsi exhibition about man-nature and 'power of one'	24 panels showing how nature can be revived by 'a single person'	Awareness building
Clear and clean jmc campus	Attempt to inculcate self help incleanliness	Allotted spaces maintenance	To internalise 'no litter and no shame in picking up litter'
Effects of mobile	Survey about mobile usage in AWL,	Currently awareness building	On green board

phone  
radiation  
on health

Poster campaign; later  
activists  
to address issues

Effects of  
e-waste

Information campaign

To drive home good  
practices of disposing  
off e-goods

On green board

Green society identified and put up nameplates of 56 different species of trees present in our college campus for developing awareness about diversity in nature. In continuation, this year a project on tree watch and tree mapping were carried out for 15 species. We found that our college has 118 Neem trees (*Azadirachta Indica*) and 8 Saptaparini trees (*Alstonia Scholaris*).

## ***TRANSPARENCY OF GREEN AUDIT REPORT***

*Green audit report is one of the useful means of demonstrating an organization/Institution's commitment to openness and transparency. If an Institute believes it has nothing to hide from its stakeholders,*

*then it should feel confident enough to make its green audit reports freely available to those who request them. As a basic rule, green audit reports should be made available to all stakeholders.*

**GREEN FOUNDATION**

**IOTA LABORATORIES**

# **ANNEXURE – PHOTOGRAPHS OF ENVIRONMENT CONSCIOUSNESS**

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## **GREEN SOCIETY 2020-21**

































































































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