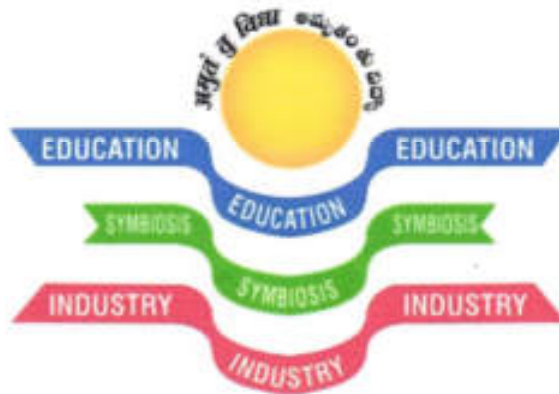


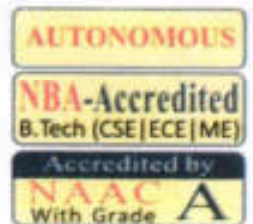
# GREEN AND ENVIRONMENTAL AUDIT REPORT

## 2018 – 2019



**Devineni Venkata Ramana & Dr. Hima Sekhar**  
**MIC College of Technology**

ISO 9001:2015 Certified Institute  
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakimada)  
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\*Subject to successful completion of surveillance audits

**Green and Environmental Audit Assessment Committee**

Sl. No	Name of the Member	Designation	Signature
1	Dr. Y.Sudheer Babu Principal	Chairman	
2	Dr. G. Rajesh NSS Co-Ordinator	Member	
3	Mr. N. Venkata Subbarao Associate Professor, Dept of Civil Engg.	Member	
4	Mr. S. B. C. Prasad Assistant Professor, Dept of Basic Engg.	Member	
5	Mr. K. Venkateswara Rao Maintenance Incharge	Member	

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### **1. Introduction:**

Green auditing is the process of identifying and determining whether the institutional practices are eco-friendly and sustainable. The Green audit aims to analyze environmental practices on the college campus. This is an attempt of Devineni Venkata Ramana & Dr. Hima Sekhar MIC College of Technology to conduct green audit on the college campus. For audit purpose, the study area is grouped as different buildings and blocks like Main building, BED block, Boys' hostel and Girls' hostel.

The main objectives of carrying Green Audit are:

- i). To examine current environmental practices in the college
- ii). To set up goal, vision, mission for green practices on the college campus
- iii). To document the quality of drinking water
- iv). To document the solid waste disposal system
- v). To enable waste management through solid waste and water recycling
- vi). To prepare an Environmental Statement Report on green practices.

### **2. About Institution:**

Devineni Venkata Ramana & Dr. Hima Sekhar MIC College of Technology's (Autonomous) odyssey began in 2002 in Kanchikacherla, a village that boasts of idyllic beauty and serene atmosphere suited for scholastic pursuits. Right from its inception, the College has crossed new vistas making inroads into Quality Education under the dynamic stewardship of our Visionary Chairman Dr. M V Ramana Rao, M.E., Ph.D., CEO & MD MIC Electronics Ltd., Hyderabad.

MIC's tryst with destiny began in 2002 with three branches of B.Tech., (ECE, CSE, and EEE). In 2004, the Mechanical Engineering branch in B.Tech., MCA & MBA courses were added. The College was granted permission to run M.Tech., in Machine Design, PE&D, VLSI&ES, and CSE in 2012. APSCHE approved diploma courses in 2012-13 with two branches: EEE and ME. in 2013-14, two more branches in diploma viz., CE and ECE were approved in 2013, permission was accorded for B. Tech., in the Civil Engineering branch and 2017 for B.Tech in Information Technology .

The College was approved by the All India Council for Technical Education (AICTE), New Delhi, and is permanently affiliated to the JNTUK, Kakinada.



### **3. Water Management:**

Water is one of the basic needs that a man requires for his existence and survival. This is evident from the fact that civilizations have flourished mostly on the banks of rivers in ancient times. Water is a natural resource that is freely available but drinking water is not available freely for human consumption. It is very important to conserve the water resources to make a sustainable campus. Water auditing is conducted for the evaluation of raw water availability and to suggest better options for recycling and reuse of water.

No proper source of water is available on the campus of Devineni Venkata Ramana & Dr. Hima Sekhar MIC College of Technology. Due to failure of bore wells in the college location, the college collects water from the nearest owned bore well and open well point. Total required water is transmitted through water tankers to the campus daily. The total quantity of water required for the campus is assessed at one lakh liters per day.

To supply good quality of drinking water to the students, Reverse Osmosis plant is established in the college. Drinking water quality is also analyzed by the Environmental Engineering Lab.

### 4. Water Quality Analysis by Environmental Engineering Lab:

Sl. No.	Parameter	Indian Standard for drinking water (BIS 10500-2012)	Result
1	p <sup>H</sup>	6.5-8.5	7.20
2	Turbidity, NTU	5	3
3	Total Hardness (as CaCO <sub>3</sub> ), PPM	300	170
4	Total Dissolved Solids, PPM	500	250
5	Alkalinity, mg/l	200	160
6	Acidity, mg/l	---	20
7	Chlorides (as Cl), mg/l	250	140
8	Iron (as Fe), mg/l	0.3	0.1

### 5. Sustainable Water Practices on the Campus:

#### **Sprinkler Method:**

Sprinkler irrigation system has been installed to maintain gardens and lawns in the college campus and this practice helps to save water and can supply water to the roots of plants.

#### **Rain water harvesting:**

Rain water harvesting is one of the best methods to conserve water. Three different sizes of rain water storage tanks are constructed on the campus. Rain water harvesting structures are also recommended by the Committee to increase conservation capacity.

### 6. Green Management in Campus:

This includes plants, greenery and sustainability on the campus. The college created a green campus by growing a number of trees and plants. Various tree plantation programs are being organized on the college campus and surrounding villages through NSS (National Service Scheme).

#### List of Trees and Plants Present on the Campus:

Sl. No.	Name of the Plant
1	Almonds Plant
2	Yucca Plant
3	Green ficus Plant
4	Phoenix Paludosa
5	Pagoda Plant
6	Yadra bel plant

7	Coconut Plant
8	Crepe Plant
9	Catalpa Plant
10	Sapota Plant
11	Shatavari Plant
12	Neem Plant
13	Chandra Prabha flower plant
14	Mango tree
15	Bamboo Plant
16	Banana Plant
17	Araucaria Plant
18	Sago Palm Plant
19	Bougainvillea glabra plant
20	Jamun Plant
21	Guava Plant

### **7. Solid Waste Management on the Campus:**

Waste generated from tree leaves and lawn management comes under this Solid waste management on the campus. Separate dustbins are provided for bio-degradable and plastic waste to segregate them at source itself. Single sided used papers are reused for writing and printing in all the departments to minimize the usage of papers. Examination related material, reports and guides are properly disposed for recycling after completion of their preservation period.

Solid waste is collected regularly by using college tractor for disposal to produce manure at the village panchayat.

### **8. Recommendations and Suggestions:**

The internal audit team recommends the following actions.

- i). To minimize the cost to get water from the nearest source, the Committee advised to adopt sustainable water practices like rain water harvesting and recycling of waste water.
- ii). Proper mechanism is required to identify water leakages in the college.
- iii). Awareness programs to save water and energy need to be conducted.
- iv). Observe power saving day once in a month.
- v). Observe a 'no-vehicle' day once in a week.



**9. Photo Gallery:**





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