



# ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC  
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

**7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste**

S.No	Proof of Documents
	Solid waste management
2	Liquid waste management
3	Biomedical waste management
4	E-waste management
5	Waste recycling system
6	Hazardous chemicals and radioactive waste management

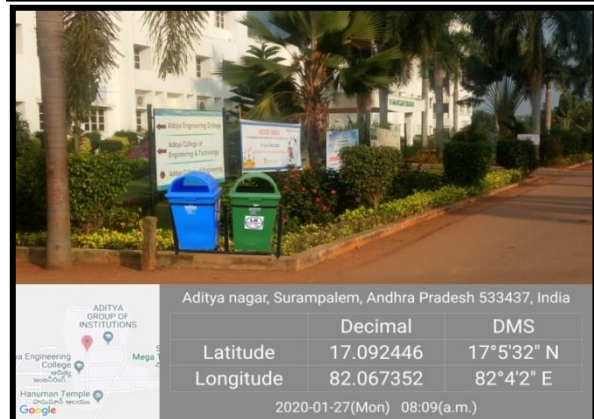
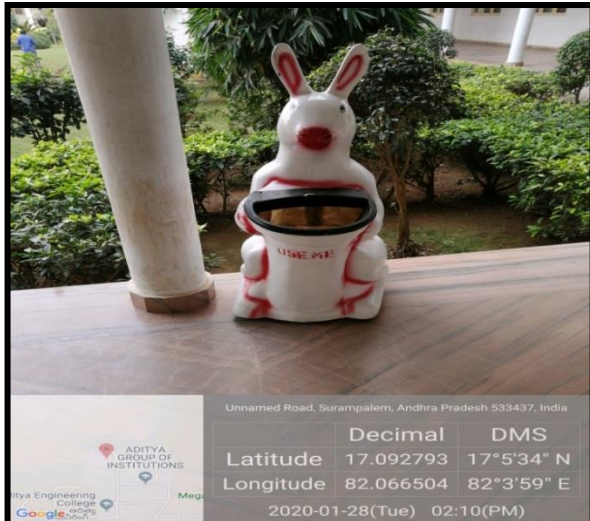


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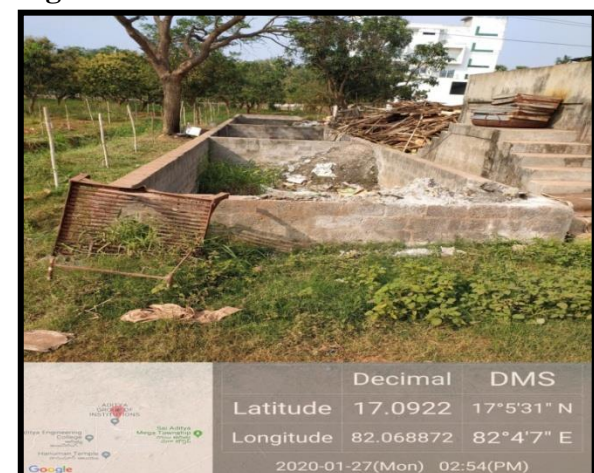
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Aditya College of Engineering  
SURAMPALEM-533 437

The facilities in the Institution for the management of the following types of degradable and non-degradable waste.

## I. Solid waste management:

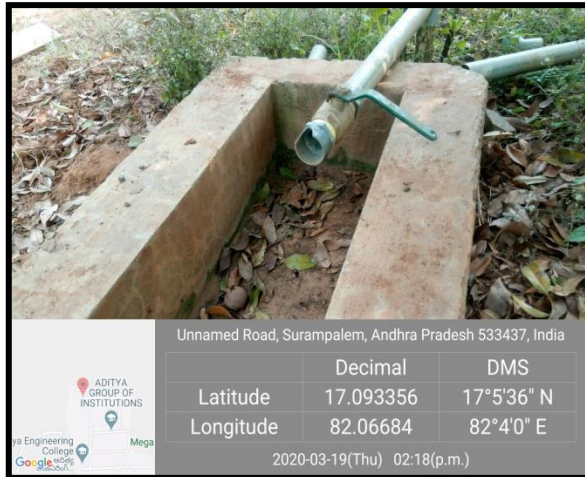


## Composting





## II. Liquid waste management:

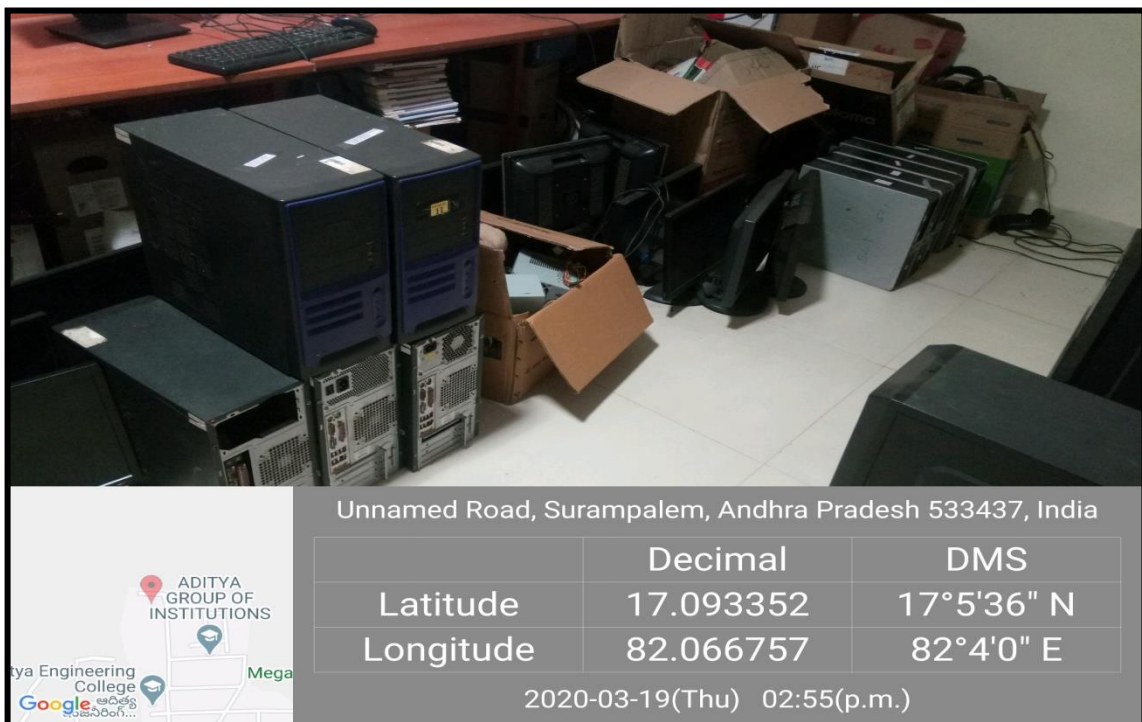


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### III. Ewaste Management:

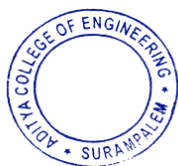
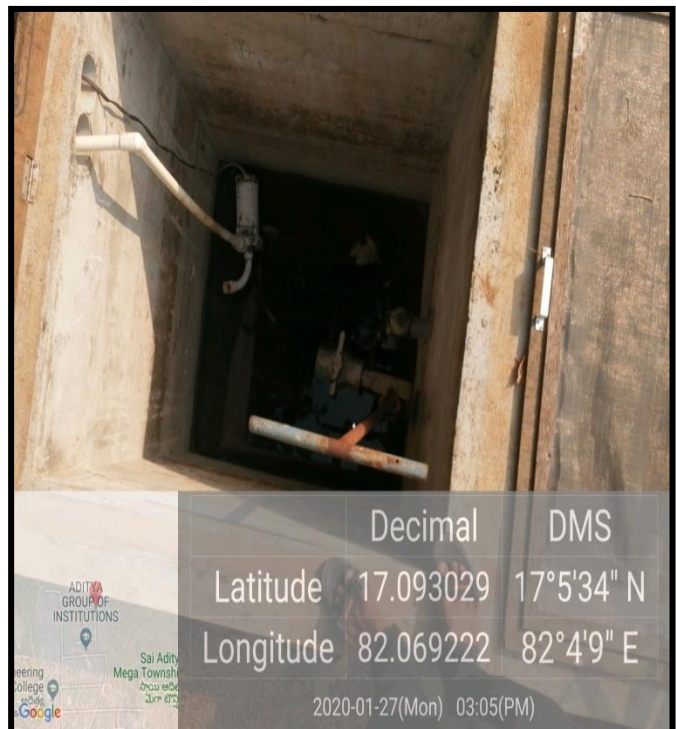


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#### IV. Waste water recycling: Sewage Treatment Plant (STP) for waste water recycling



  
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## V. Hazardous chemicals and radioactive waste management:

Chemistry is one of the subjects in first year and handbook is available for Chemical safety mentioning handling of hazardous chemicals, prevention of hazardous waste, recycling and reusing solvents to minimize waste. Based on this manual the chemical wastage is processed before it is let out. **Radioactive waste is not generated in college.**



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## Solid Waste Management

Aditya College of Engineering took major steps to manage the waste to protect and create a clean and pleasant environment. The college has 15 members team for housekeeping. Every day they regularly collect an average of 100 kg solid waste from the dust bins placed on the campus include departments, administrative-office, canteens, hostel, and guest houses. The whole waste is segregated that can be used for composting which is dumped for vermicomposting. The vermicomposting unit requires biodegradable waste to convert as fertilizer that will be used for plants. The Paper waste from departments, libraries, administrative offices, Hostels are disposed of through vendors. Aditya promotes digital platforms to reduce the usage of paper for communication and sharing documents.



## Vermi Composting Unit





## Earth worms in vermin compost



## Gathering solid waste for vermin compost





Plot.No.42,

Block-D Extension, Auto Nagar,

Visakhapatnam - 530012, IDA.

8912755528, +91 9246762326

## **MEMORANDUM OF UNDERSTANDING**

**Between  
Veera Waste Management Systems  
And  
Aditya College of Engineering**

### **I. Purpose**

The purpose of this Memorandum of Understanding (MOU) is to formally create an agreement between Veera waste management systems and Aditya College of Engineering to collect the E waste and solid waste from the campus in regular manner.

### **II. Background**

The VWMS works to address emerging environmental issues and solve current and future environmental Problems. The agency works through partnering with non profit organisations, state and local governments to organise some pollution prevention programs and energy conservation efforts. VWMS advances educational efforts to develop an environmentally conscious and responsible public and to inspire personal responsibility in caring for the environment.

ACE is to maintain eco friendly and pollution free campus by providing high quality measures that the needs of the stake holders and surrounding area. As part of this vision, ACE will increasingly be recognised as an environmentally conscious institution that uses resources wisely, reduces solid, e waste and hazardous waste and increases recycling and re-use of materials.

We commit to protecting of our students, staff and the community where we live and work by continuously improving our programs to reduce waste, minimize the use of hazardous materials, prevent pollution and improve efficient use of our valuable natural resources, develop renewable energy sources, increase recycling, comply with all environmental regulations, and work toward sustainability.

The VWMS and ACE will, through this MOU, work together to further progress in sustainable operations.

### **III. Memorandum of Understanding (MOU) Commitments**

#### **Electronics Waste (E-Waste).**

Computer components/CRTs contain hazardous substances, which can harm the environment if they are simply put out with the trash. These items and similar ones contain both lead and mercury, which make their way into landfills or incinerators. Substantial cost and effort are required to assure that these hazardous substances are not released into the air or water. The Institute has contracted with an agency to collect of all E-Waste that is not leased or returned to the supplier.

#### **B. Status Reporting**

ACE will submit a status report to VWMS annually beginning one year after the official signing of the MOU. The report will include an update on the various activities identified in the agreement. VWMS will use this data to determine the environmental benefits associated with ACE's "green" activities.

#### IV. Terms and Conditions

This MOU is not a contractual or a financial obligation instrument. Nothing in this MOU shall obligate VWMS or ACE to expend appropriations or to enter into any contract or other obligation or be cited as the basis for the promise or transfer of funds. Collaboration under this MOU shall be in accordance with applicable statutes and regulations. Either Party may unilaterally withdraw at any time from this MOU by transmitting a signed written notice to that effect to the other Party. By mutual agreement, which may be either formal or informal, each party may modify the list of intended activities set forth above, and/or determine the practical manner by which the goals, purposes and activities set forth in this MOU will be accomplished. Modification to other written parts of this MOU must be made in writing and signed by either the Parties or their designees.

Nothing in this MOU shall be construed to authorize or permit any violation of any, State or local law, including, but not limited to, any environmental law administered and/or enforced by VWMS. Access to all documents generated pursuant to the activities set forth in this MOU that constitute agency records for purposes of the Act .

ACE agrees that it does not expect, nor will it ever seek to compel from VWMS in any judicial forum, the payment of money, services or other thing of value from VWMS based upon the terms of this MOU.

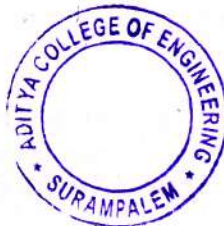
#### V. Effective Date and Administration

This MOU will become effective upon signature by the Regional Administrator of VWMS and Principal of Aditya College of Engineering or their designees. It may be modified or amended by written agreement between the parties. This MOU will terminate at the end of five (5) years from the date of signature unless revised or extended at that time by written agreement of the parties. This MOU may be terminated at any time by either party upon the issuance of a written notice to the other party. The Parties will review annually the provisions of this MOU and its implementation.

Signed:



**M/s Veera Waste Management Systems**  
Plot No. 42, Block-D Extension  
IDA, Autonagar – 530012,  
Visakhapatnam.

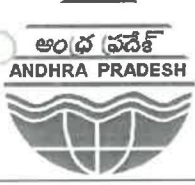


**Principal**

Aditya College of Engineering  
ADB road, Aditya Nagar  
Surampalem - 533467

**Aditya College of Engineering**  
**SURAMPALEM-533 437**





**ANDHRA PRADESH POLLUTION CONTROL BOARD**

D.No. 33-26-14D/2, Chalamalavari Street, Kasturibaipet,  
Vijayawada – 520 010.

Phone No. 0866 - 2436217

O/C

**Authorization for dismantling of E-Waste  
(Under rule 13(3) (VI) of e-Waste (Management) Rules, 2016)**

**Authorisation.No. 03/APPGB/VSP/e-Waste/HO/ 2017 -131**

**Date: 03.05.2019**

1. **M/s Veera Waste Management Systems** is hereby granted e-Waste Authorization only for dismantling of e-waste at the premises situated at **Plot No. 42, Block-D Extension, IDA, Autonagar, Visakhapatnam District.**
2. The Authorization is granted for collection, storage and dismantling of **e-waste – 19.4 TPD.**
3. The Authorization shall be valid for a period up to **30.04.2020.**
4. The Authorization is granted for dismantling of e-Waste as prescribed under schedule-I of e-Waste Rules 2016.
5. The Authorization is subject to the conditions stipulated at Annexure-A and such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.

**Sd/-  
CHAIRMAN**

**To**

**M/s Veera Waste Management Systems,  
Plot No. 42, Block-D Extension,  
IDA, Autonagar – 530 012,  
Visakhapatnam District.**

**Copy to:**

1. The JCEE, ZO, Visakhapatnam for information and necessary action.
2. The EE, RO, Visakhapatnam for information and necessary action.

**// T.C.F.B.O //**

**JOINT CHIEF ENVIRONMENTAL ENGINEER  
UH-II**

07/5/19

07-05-2019  
DESPATCHED

Terms and conditions of authorization:

1. The e-waste dismantling unit shall comply with the provisions of the Environment (Protection) Act, 1986, and E-Waste (Management) Rules, 2016.
2. The application is processed based on the report submitted by Environmental Engineer, Regional Office, Visakhapatnam and the information furnished by the proponent.
3. The proponent dropped the proposal of refurbishment of e-Waste vide letter dt. 13.04.2019, hence, e-Waste authorization is considered merely for dismantling.
4. As per the information furnished by the proponent, the dismantling facility is not provided with reprocessing of metal waste / scrap recovered during dismantling.
5. The authorization shall be produced for inspection at the request of an officer authorized by the Andhra Pradesh Pollution Control Board while storage, transport and dismantling of e-waste.
6. The dismantling unit authorized shall not rent, lend, sell, transfer or otherwise transport the e-wastes without obtaining prior permission of the Board.
7. Any unauthorized change in personnel, equipment, working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
8. It is the duty of the authorized person to take prior permission of the Board to close down the operations.
9. An application for the renewal of this authorization shall be made, as laid down in sub-rule (VI) of rule 13(3), i.e. 120 days before the expiry of this authorization.
10. The dismantling unit shall provide / publish details such as address, telephone number / helpline number, e-mail, etc. of the facility to the consumers (general public), bulk consumers and local bodies etc.
11. The dismantling unit shall ensure that the e-waste collected by them is stored in a secured manner in the authorised premises till it is dismantled mechanically and to send residual waste to recycler.
12. The applicant shall take all necessary steps to avoid inconvenience to the neighbors.
13. The dismantling centre shall not carry out any recycling activity of e-waste.
14. The dismantling shall ensure that the collected waste is not stored for **more than 180 days**. The collection cum dismantling unit shall not collect any waste other than e-waste as mentioned at Schedule-I.
15. The dismantling centre shall ensure that no damage is caused to the environment during storage and dismantling of e-waste.
16. The dismantling shall preferably segregate e-waste into categories of "IT & TE" and "Consumer electrical and electronics" and shall store it in suitable racks /containers / bins. Height of the containers should be limited to 7 feet. Containers of appropriate size and shape shall be used for segregation of e-waste items to facilitate effective handling operations.
17. The shed area shall be covered and with impervious flooring.
18. The facility shall provide adequate facilities for handling/arresting leakages of compressor oils, CFCs / HCFCs in case of collection, storage and dismantling of goods like refrigerators and air conditioners.
19. The dismantling unit shall take care for proper packing of broken e-waste equipment during the storage, transportation, and dismantling.
20. The dismantling unit shall be secured with boundary wall and security personnel.
21. The proponent shall follow Rule No. 19 of E-Waste (Management) Rules, 2016 for transportation of e-waste.
22. The dismantling unit shall send the residual e-waste only to M/s. Eco Recycling Limited., Mumbai (recycler) through authorized transporter as per the e-waste rules for further recycling.
23. The dismantling unit shall maintain records of the e-waste handled in Form – 2 and make such records available for scrutiny by the Board.
24. The dismantling unit shall file annual returns in Form – 3 to the Board on or before the **30th day of June** following the financial year to which that return relates.
25. This authorization is issued subject to obtaining required permissions from local authority / Fire Safety Department and other relevant government departments, which are statutory requirement for carrying out the above activity.
26. The proponent shall comply with all the directions issued by the Board from time to time.
27. Concealing the factual data, submission of false information/fabricated data and failure to comply with any of the conditions mentioned in this authorization may result in withdrawal of this authorization and attract action under the provisions of relevant pollution control Acts.



28. The Board reserves its right to modify above conditions or stipulate any further conditions in the interest of environmental protection.
29. The Board is empowered to suspend or cancel the authorization in case of non compliance of conditions of the authorization or with any provisions of Environment (Protection) Act or e-waste Rules.
30. This order is issued without prejudice to the rights of this Board in any court of law.

**Sd/-  
CHAIRMAN**

**To**

**M/s Veera Waste Management Systems,  
Plot No. 42, Block-D Extension,  
IDA, Autonagar – 530 012,  
Visakhapatnam District.**

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