

(ACADEMY OF MARITIME EDUCATION AND TRAINING)

(A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)

CRITERION 7 INSTITUTIONAL VALUES AND BEST PRACTICES

**KEY INDICATOR** 

#### 7.1 INSTITUTIONAL VALUES AND SOCIAL RESPONSIBILITIES

 $\mathbf{Q}_{l}\mathbf{M} \ / \ \mathbf{Q}_{n}\mathbf{M}$ 

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

# **ADDITIONAL INFORMATION**



#### AMET (ACADEMY OF MARITIME EDUCATION AND TRAINING) (A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)

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

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

The waste generated is classified into the following types:

# 1. Solid waste Management

Solid waste generated in the campus include, paper, plastics, metal cans ,food waste, vegetable peels, leaves etc. 'Use and throw' items like plastic cups, plates etc. used in the college canteen are replaced by reusable items steel glasses and plates. Glass, paper and metal waste is sold for recyclers. Food waste and non-biodegradable wastes are collected in separate bins. Biodegradable waste is disposed of in four dumping yards of size 3m x 3m x 2m, specially earmarked for the purpose.

# **BIOGAS PLANT**

# **TECHNICAL SPECIFICATION FOR 5.0M / DAY OF BIOGAS PLANT**

Biogas Plant Model	Specifications
Biogas Plant Type	Biogas plant- Water seal
	model
Feed stock	50KG/Day Food Waste
Bio-Digester Output	
Biogas production (M / day)	~ 5
Average Gas Calorific Value (Kcal/NM)	~ 4,700
Organic Manure Generated (Lit/Day)	~ 60 to 80
Biogas Equivalent to LPG	



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5.0M Biogas equivalent to LPG (kg/day)	~ 2.0 to 2.25
5.0M Biogas equivalent to	~ 60 to 67.5
LPG(kg/Month)	

# **Research undertaken on Bio Fuels**

Department	Year	Area of	Publications/Thesis
		study	
Marine	2015	Biofuel	Production of Bioethanol from
Biotechnology	(M.Sc.)		Papaya and Pineapple Wastes using
			Marine Associated Microorganisms.
			2015. Biosciences Biotechnology
			Research Asia 11(SE):193-199
Mechanical	2015-	Bio Fuels	Experimental Studies on the
Engineering	2020		Improvement of Performance of a
	PhD		Diesel Engine using karanja
			Biodiesel



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**Bio Gas Plant** 



As per Mail received from your concern dated on 15th July 2020, we are pleased to submit our Invoice as under for setting up Biogas Plant out of Food Waste of 50 Kg / Day and Solid Waste Management system

S.No	Name of the Equipment Technical Specification Qu		Quantity	Scop	e of ply
	Name of the Equipment		~~~~~	AADIA	Client
L	5.0 M <sup>3</sup> /Day Biogas Plant- Digester & Biogas holder (2.2 M Dia X 2.1 M Height)	4.5M <sup>3</sup> Digester thickness 5.0 mm 3.5M <sup>3</sup> Gas Holding thickness 4.0 mm	1 No	1	
2	Biogas Canteen Burner	Single Stove	2 No's	1	
3.	Gas Pipeline	Nylon threaded gas hose pipeline & Ball valve connection	Up to 5 Meters Max.	1	
4.	Installation and commissioning	As required	Lot	1	
5.	Water line and cow dung .	Cow Dung + Water Content (1:1 Ratio)	Lot		1
5	Earth Excavation	As required	Lot	-	
, 1	Initial cow dung feeding to biogas plant for First gas	2000 Kg to 2300 Kg	Lot		~
	Solid Waste Management of Composting Pit	Vermi-Compost-Earthworms, Start-up Composter, Compost Booster, Mixing devices	Lot	1	
N	Aicrobial Inoculum	• As required	3 Kg	1	

(a) DETAILED LIST OF EQUIPMENTS/ PARTICULARS

Head Office: 7/27A. Eust Street, Nallipalayam Post, Namakkal (Tk) & (Dt)-637003, Tamil Nadr Branch Office: 61/43, South Muniyappan Kovil Street, Karungalpatti, Gugai, Salem-636006, Tamil Nadu

**Bill for implementation of Bio Gas Plant** 



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(B) 1 S.Ne	RICING DETAILS				
	1 5.0 M <sup>3</sup> /Day Biogas Plant-Director 5.0	0	1		
1	Dia X 2 1M Height) – 4 5M Digester & Biogas holder (2 2M           3 5M <sup>2</sup> Gas Holding thickness 4.0 mm           II           Biogas Canteen Burner-Single Stove           III           Gas Pipeline-Nylon threaded as be	1 Unit X	1,35,000 0		
2	valve connection     Solid Waste Management of Composting Pit, Venni-     Compost-Earthworms, Start-up Composting Connection	1.55,000			
3	1 Microbial Insende	3 Sets X 6,500	19,500.0		
Total	including including	3 Kg X 1,500	4,500 (		
1 mou	It received for 50% from the		1,59,000,0		
Amour	mount received to 25% from the total dated on 23/07/2020				
men	mount received for 25% from the total dated on 12/08/2020				
mour	mount received for 15% from the total dated on 01/10/2020				
emain	ing Balance for 10% from the Total Amount		15 900		

Our Team and representatives successfully installed the biogas plant and trailed the flame with burnets and also initiated Solid Waste Management pit work, supplied all the Start-up Microbial Composter, Compost Booster, Earthworms for 3 SWM Pit for waste decomposition purposes

Hence, we request you to kindly release the remaining balance from the total. Further, we extend our sincere thanks to AMET University for provide us this great opportunity.

For AADIA TRUST

Thanking you



Date: 09.01.2021

Yours Sincerely

Managing Trustee

Head Office: 7/27A, East Street, Nallipalayam Post, Namakkal (Tk) & (Dt)-637003, Tamil Nadu Branch Office: 61/43, South Muniyappan Kovil Street, Karungalpatti, Gugai, Salem-636006, Tamil Nadu

**Bill for implementation of Bio Gas Plant** 



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To AADIA 7/27A, M Namakk Tamilna Pincode Mobile: E-Mail a	TRUST Nallipalay. (al (Tk) & du : 637003 9444935( nadiatrust)	am Post, (Dt) )71 @gmail.com		Purd Purd Inder Inder Your Your	rchase No./Dr nase No./Date nting Dept. Quotation ( Quotation (	lo. Dr.	: 20 Mr. 13/ CA 05 16/	20-21/P/0 Sundar 07/2020 NTEEN 07/2020	0011 Dt. / Mr. Sud	17/07/2020 Ihakar - AR I	Di.
S.No	Code	Item	e Order ti	Qty.	Rate	Disc	wing iten Disc	GST	GST	Amount	Required
1	L1001	Lab Equipments 15 0 M3/Day Biogas Plant- Digester & Biogas holder (2 2M DlaX 2.1M Height) -4.5M3Digester thickness 5.0 mm 3.5M3Gas Holding thickness 4.0 mmll.Biogas Canteen Burner- Single Stovelli Gas Pipeline-Nylon threaded gas hose pipeline & Ball valve connection	Unit	1.00	135000.00	Z - ((8+0) - 2	0.00 EIT	000	0.00	135000.00	24/07/2020
2	L1001	Lab Equipments Solid Waste Management of CompostingPit, Vermi-Compost- Earthworms, Start- up Composter, Compost Booster, Mixing devices	Sets	3 00	6500.00	0.00	0.00	0.00	0.00	19500.00	24/07/2020
3	L1001	Lab Equipments Microbial Inoculum. Inclusive of installation and commissioning charges, freight charges, GST not covered for all items	kgs	3.00	1500.00	0,00	0.00	0.00	0.00	4500.00	24/07/2020
		CAMERA	à				Sub To	N. AME	C Stores	F301	159000.0 159000.0 REV 00/01 10

Invoice for implementation of Bio Gas Plant



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Invoice for implementation of Bio Gas Plant



#### AMET (ACADEMY OF MARITIME EDUCATION AND TRAINING) (A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)

## Solid-Waste Treatment and Disposal

Once collected, municipal solid waste may be treated in order to reduce the total volume and weight of material that requires final disposal. It can also serve to recover certain materials, as well as heat energy, for recycling or reuse.



Compost pits inside the campus



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**Compost Pits inside the campus** 



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Experts under Swachata Ranking visited the Campus and Inspected the Compost Pit



Experts under Swachata Ranking visited the Campus and verified the Hand Made Paper from paper waste.



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Handmade Paper from Paper Waste



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# 2. Liquid waste Management





Sewage Water Treatment Plant



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# FBBR Sewage Treatment Plant



Experts under Swachata Ranking visited the Campus and inspected the sewage treatment plant



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The treated water is used for gardening and flushing of toilets in hostel blocks. The quality of treated water is certified by NABL accredited labs. The STP treated water test report of analysis from the NABL accredited laboratory is attached in the annexure. The Treated water results are under the Tolerance limit as per TNPCB (Tamil Nadu Pollution Control Board).

SL.NO	Parameters	Results	TNPCB Limits
1	pН	6.85	5.5-9
2	TSS	12	30
3	Colour	Colourless	2100 B
4	COD	84	250
5	BOD	10	20
6	Chlorides	285	1000
7	Sulphates	78	1000
8	Oil and Grease	<1.0	10

## **Treated Water Test Result**



**Utilization of STP treated Water to gardens** 



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## DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE

SANITARY CERTIFICATE -2018

(Under the Tamilnadu Education Rules)

Appendix - 3

(Chapter III Rules - 24)

I hereby declare that I have inspected AMET UNIVERSITY BUILDING AND PREMISIES, located at No.135, East Coast Road, Kanathur, Chennai - 603 112, Tiruporour Block, Kancheepuram District been inspected on Wednesday 18th July 2018 and found

- That the accommodation provided for each of the several division is sufficient and is properly ventilated and lighted.
- That the building is maintained in substantial repair.
- That is neat and clean.
- That the supply of drinking water is wholesome.
- That the latrine and urinal arrangements are adequate for both sex and good.
- That in all other necessary aspects the sanitation is good.

#### **Conditions:**

- The College Authority should banned the Cigarette and other Tobacco products in the campus and visible board to be displayed – COTP Act 2003.
- This certificate is valid for one year from the date of issue.

LDIS. No. : 36/93/ A1/2018 Dated : 26.07.2018 125 Farel

Block Health Supervisor, Tiruporour Block, Kelambakkam 603 103.

COUNTERSIGNED

150

DEPUTY DIRECTOR OF HEALTH SERVICES, KANCHEEPURAM DISTRICT, SAIDAPET @CHENGLEPET.

To

#### AMET UNIVERSITY

No. 135, East Coast Road, Kanathur, Chennal - 603 112, Tiruporour Block, Kancheepuram District.



**Sanitary Certificate** 



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Santhome Enviro services

NABL (ISO / IEC 17025:2005) Accredited & (A CONSTITUENT BOARD OF QUALITY COUNCIL OF INDIA) ISO 9001:2015 Certified Laboratory L4/2, East Avenue Road, (Near SBI) Korattur, Chennai-600 080



Ph : 044 - 42181525 / Mob: 9791530069 Email ID: santhomeenviro@gmail.com | Website : www.santhomeenvirolab.in

Car	nole Defble - CARAUMERICO		TEST R	EPORT			
Cur	tomar Name SAS/W/055/10	16.		Report No.	145/10		
C-CF	scomer Name :m/s.AMIT Univer	Bity		Report Date Page: 1 of 2	10.10.2020	•	
San Cus San	nple Description : Water nple Drawn By/ Date : Custor tomer's Reference : Letter I nple Mark : Main R	ter /09.10.2020 Dated on 09.10.202	0	Received On 09.10.2020 Commenced On 09.10.2020 Completed On 10.10.2020			
				As Per IS	10500:2012	TEST METHOD	
No	PARAMETERS	UNITS	RESULTS	Requirement (Acceptable limit)	Permissible limit in the absence of alternate source	TEST METHOD	
-			Physical P	roperties	and mate source		
1	*Appearance: When Analyzed After Filtration		Clear			3	
2	pH value at 25°C	-	7.15	6.5-8.5	6.5 - 8.5	APHA 23 <sup>rd</sup> Edn 2017	
3	*Color	Hazen Unit	10.0	5	15	APHA 23 <sup>rd</sup> Edn 2017 2120 B	
4	Odor		Agreeable	Agreeable	Agreeable	IS 3025 P.5 1983 R 201	
5	Turbidity	NTU	<1.0	1	5	APHA 23 <sup>40</sup> Edn 2017	
6	Electrical conductivity at 25°C	Micromhos/om	1578		-	APHA 23 <sup>rd</sup> Edn 2017	
_			Chemical Pr	roperties		2510.5	
1	Total Suspended Solids	mg/l	<1.0			IS:3025:P.17 1984 R 201	
8	Total Dissolved Solids	mg/l	915	500	2000	IS 3025 P.16 1984 R 201	
_			End of P	age 1	10		
		for 5	ANTHOME EN	VIRO SERVICES	-		
		м.м	Y - S Verified & Autt	ivourtl ·	Chomat C.		
	NOTE: 1. Test results sho 2. This test reports Approval of the 3. Unless informed The date of iss	wh in this test report r hall not be reproduce aboratory I by the customer the se of test report (exce	elate only to the ite anywhere except test items will not t optional for Microbi	erns tested, in full and in same forma be retained for more than ology and wastewater fo	t without the 1-10 days from r which retaining time	7 days )	

Water Test Report on 10/10/2020



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# EKDANT ENVIRO SERVICES (P) LIMITED

- 5528

NABL Accredited & MoEP Reception Laboratory An ISO 9001 : 2008 and OHSAS 10001 : 2007 Certified Company No.857/1.46% Tower, North Main Road, Anna Nagar West Extr., Chernal - 600 101: India Phone : 048 - 2015 3349 / 4056 2349 Mobio : 8444411178 E-mail : eldentiab@gradi.com / Info@eldantab.co.in Well : www.eldentiab.co.in



Approval of the informatory 3. Common articities the the

common information by the cases are need there will not be returned for more than 10 days from.

The date of issue of ket report (recognized to Mercheningy and Assessed ar for which retaining time 7 days.)

Water Test Report on 12/01/2018



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Water Test Report on 13/12/2018



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## 3. Biomedical waste management

Biomedical waste (BMW) is any waste, which is produced during the diagnosis, treatment, or immunization of human or animal research activities. The basic principle of good BMW practice is based on the concept of 3Rs, namely, reduce, recycle, and reuse. The best BMW management (BMWM) methods aim at avoiding generation of waste or recovering as much as waste as possible, rather than disposing.. Here in AMET we have NAPKIN INSULATOR as a tool of biomedical waste management.





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**Napkin Incinerator** 



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**Biomedical Incinerator** 



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**Biomedical Incinerator** 



**Bills for Biomedical Incinerator** 



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## 4. E-waste Management

In AMET policy of Government of Tamil Nadu is followed to create an efficient and uniform infrastructure for collection, utilization and disposal of E-Waste.

## **E Waste Management:**





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## Collected E Waste IT POLICY OF THE UNIVERSITY



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#### IT POLICY

#### INTRODUCTION

The AMET Deemed to be University recognizes the vital role that information technology plays in the administrative activities as well as the importance in an academic environment to ensure security in all forms. As more information is used and shared in a digital format by students, faculty and staff, Parents both within and outside the University, an increased effort must be made to protect the information and the technology resources that support it. Increased protection of our information and Information Technology Resources to assure the usability and availability of those Resources is the primary purpose of this Policy. The Policy also addresses privacy and usage of those who access University Information Technology Resources.

#### SCOPE OF THE POLICY

The IT policy applies to everyone who accesses University Information Technology Resources such as students, faculty, staff and parents. The main scope of this Policy include, but are not limited to, University-owned transmission lines, networks, wireless networks, servers, exchanges, internet connections, terminals, applications, and personal computers. Information Technology Resources include those owned by the University and those used by the University under license or contract, including but not limited to information recorded on all types of electronic media, computer hardware and software, paper, computer networks, and telephone systems. Information Technology Resources also includes, but is not limited to, personal computers, servers, wireless networks and other devices not owned by the University but intentionally connected to the University-owned Information Technology Resources (other than temporary legitimate access via the world wide web access) while so connected.

#### POLICY IN FUNCTIONAL AREAS

#### IT POLICY ON ICT

This policy applies to people, denoted as 'users' in this Policy, using the University ICT Resources including but not limited to:

· Students enrolled at the various constitute units of the University

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- · Permanent staff employed by the University
- · Temporary, casual or agency staff working for, or on behalf of, the University
- · Contractors, consultants and suppliers working for, or on behalf of, the University
- Visitors to the University.

#### IT POLICY ON HARDWARE AND HARDWARE RESOURCES

- This policy applies to hardware resources and systems made available to the users, by or on behalf of, the University including but not limited to:
- · Personal computers, laptops and terminals
- · Peripherals e.g. printers, copiers, scanners and multimedia devices
- · Mobile devices e.g. smart phones and tablets
- Networks with wired, wireless, dialup and/or internet connections; Internet services e.g. world wide web, blogs and wikis
- Email and other messaging, social networking or collaboration services such as blogs, chats and forums
- Application software, services and databases; 

   Removable media including CDs, DVDs and memory sticks

#### IT POLICY ON SOFTWARE RESOURCES

The users of the University shall make effective usage of campus collaboration systems, Internet, wireless resources, official websites (including university website, conference Website, journal portals, online admission systems, and course website), and Management Information Systems (MIS) and ERP solutions, Learning Management System, Remote Login based facilities of the University and e-Library resources.

#### IT POLICY ON ACCESS PROCEDURES

Access to information owned by the University is generally broadly consistent with the concept of academic freedom and the open nature of the institution. However, there are types of information where access must be restricted and caution in handling and storing the information is necessary.

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#### POLICY AND PROCEDURES

Policies and Procedures - Ensure that Data Protection, Freedom of Information and other information governance policies and procedures are established to comply with all relevant legislation and that all such policies and procedures are periodically assessed and audited.

#### IT E-WASTE MANAGEMENT

The lifecycle of all IT assets spanning from acquisition to disposal shall be managed in a manner which conforms to sound environmental norms. This includes

- · Preferential dealing with IT vendors having sound E-Waste management processes
- · Extending the useful life of IT assets to postpone / minimize generation of E-Waste
- · Responsible disposal processes conforming to regulatory requirements and best practices

#### AUTHORITIES CONCERNED

- Director, ICT Enabled Education
- Centre for E-Governance
- System Administrator
- ERP
- Dy. Director E-Governance
- Information Technology Dept.
- Asst. Registrar Maintenance
- IQAC
- Registrar
- Vice Chancellor

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#### CENTRE FOR E-GOVERNANCE

#### E WASTE MANAGEMENT FORM

Name of the Item / Peripherals: SMPS

Date: 07-08-2018

S. No	Method of E Waste Disposal	Yes	No	NA
1.	Recycle and Reuse	1		
2.	Landfills		*	
3.	Incineration		~	
4.	Donate		~	
5.	Upgrade		~	
6.	E waste Vendor		~	
	TOTAL SCORE	1	5	

#### **Recommendation:**

Not considered as E waste recommended for repairing

for Je Demb Director, Centre for E Governance

JB

System Manager

TCS Second and the Second second

**E-Waste management Form** 



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#### CENTRE FOR E-GOVERNANCE

#### E WASTE MANAGEMENT FORM

Name of the Item / Peripherals: Keyboard/Mouse

Date: 17-07-2019

S.No	Method of E Waste Disposal	Yes	No	NA
1.	Recycle and Reuse		~	
2,	Landfills		1	
3.	Incineration		1	
4.	Donate		~	
5.	Upgrade		4	
б.	E waste Vendor	~		
	TOTAL SCORE	1	5	

#### **Recommendation:**

55

Considered as E waste recommended for scrapping the item to E waste vendor

for Jo Cunt Director, Centre for E Governance

JDula

System Manager

**E-Waste management Form** 



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#### CENTRE FOR E-GOVERNANCE

### E WASTE MANAGEMENT FORM

Name of the Item / Peripherals: Monitor

Date: 18-03-2020

S No	Method of E Waste Disposal	Yes	No	NA
1	Recycle and Reuse		1	
2.	Landfills		1	
3.	Incineration		1	
4,	Donate		1	
5.	Upgrade		1	_
6.	E waste Vendor	1		
	TOTAL SCORE	1	5	_

#### **Recommendation:**

Considered as E waste recommended for scrapping the item to E waste vendor

So Jibert Director, Centre for E Governance

J.Balen

System Manager

**E-Waste management Form** 



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Tel : (+9\* E-mail akshay@sezrecycmig... SEZ Sez recycling E-waste & Metal Recycling Website : www.sezrecycling.c rec cling Plot No. TP-7, 4th Avenue, IT-SEZ Area, Mahindra World City, Chengalpet-603 002 DC Nº 000196 Certificate of Destruction This is to certify that the material collected from はなるというというないというないのであるとうと MAMET UNIVERSITY GUNDER SEC. 3 OF UGL ACT 1956) Vide their Bill. Vo. 2308 ...... dated 09 11/2017 of their representative Place CHENGALPATTU Alumahael 1 Signature CHANC AL T. MELTA Date 11/11/2017 Name Designation 词痕

**E-Waste Disposal Certificate** 



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-	FOR ISao ni	te 19 (1)]				
	[see ru	10 13 [1]				
-	MANIFEST FOR HAZARI	OUS AND OT	HER WASTE			
	and the line address finducing Phone	AMET University	(Under Sec.3 o	f UGC Act 1956)		
1	Sender's name and making address (including Provide	135. East Coast R	oad, Kanathur	- 603 112		
2	Sender's authorisation No					
3	Manifest Document No	2308/09.11.201	7			
4	Transporter's name and address (including Phone No. and e-mail)					
5	Type of vehicle (Truck/Tanker/Special Vehicle)	Truck				
6	Transporter's registration No					
7	Vehicle registration No	TN20AB0307				
8	Receiver's name and mailing address (including Phone No. and e-mail)	SEZ Recycling TP-7,4th Avenue Mobile – 979071 surendhara@sea	, Mahindra Wo 1555 / 978905 trecycling.com,	arld City, Chengalpattu - 603 0 2254 akshay@sezrecycling.com.		
9	Receiver's authorisation No	E-waste/001/17	07.2012			
10	Waste description	E-Waste				
11	Total quantity	881 kgs				
S	No. of Containers	01 No				
12	Physical form (Solid/SemiSolid/Sludge/Olly/Tarry/Slurry/Liquid)	Solid				
13	Special handling instructions and additional	Not Applicable				
14	Sender's Certificate	I hereby declare that the contents of the consignment ar and accurately described above by proper shipping name are categorised, packed, marked, and labelled, and are in respects in proper conditions for transport by road accor to applicable national government regulations.				
-	Atomic di Atomic D. Classificati	Month	Dav	Year		
	Name and stamp & signature	November	09	2017		
15	Transporter acknowledgement of receipt of Wastes	Month	Day	Year		
	Name and stamp & Signature	November	09	2017		
16	Receiver's certification for receipt of hazardous and	Month	Day 09	Year 2017		
	Name and stamp & Signature					

Proprietrix.

**E-Waste Disposal Manifest** 



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		-3		
	Tr	rishyiraya		
	Recycl (A Unit of S	ing India Pvt. Ltd., SIMS Recycling Solutions)		
F Ph: +91 44 226280	lot No.A-7, Phase I, MEPZ - 57/68 Fax: +91 44 22628069	SEZ, Tambaram, Chennai Email: India.info@simsmr	- 600 045. India. n.com Web: www.simsrecycli	ing.cor
E.C.No.				
	CERTI	FICATE O	)F	
	DESTRU	UCTION A	ND	
3038	REG	CYCLING		
	This Environmental (	Certificate is hereby o	ranted to:	
	M/s. A	MET University.		
	No 135 East Coast R	Road Kanathur Chenn	ai 603112	
All materials rec applicable Local, waste to landfill, Convention (1994	eived by SIMS RECYC State and Federal laws : Used Electronic Waste ).	LING SOLUTIONS at and in an environment is as prescribed unde	e processed according ally controlled way, elimi ar the guidelines of the	to a natin Base
Destructed Mater	als were obsolete Electri	cal & Electronic Waste	– 125 Kg	
Materials listed at recovered and co	ove were destroyed on t overted to raw materials i	he date listed below ar n our recycling process	nd all materials recovered s.	l were
Gate Pass Numbe Gate Pass Date:	er: E Waste/001 15 <sup>th</sup> September 2015	(	the bash	
Destructed On: 24 Issue Date 24	<sup>th</sup> September 2015 <sup>th</sup> September 2015	MEPZ SEZ Chenal-45	Country Manage	r
Sti-		SIMS		

E-Waste Disposal Certificate



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#### :: Tamil Nadu Pollution Control Board ::

Page 1 of 2

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CENTRE

#### E-Waste Management

DETAILS OF E-WASTE RECYCLING UNITS

No.	NAME OF THE FIRM	ADDRESS	CONTACT		
			PHONE NO.	E-MAIL	WEB SITE
1	Mis SI Z Recyclers.	17-718. With Avenue: Mahindra woritt City Developers Ltd., Industrial Estate, SE2 Area. Thermelapakkam Village, Kancheepuram Dt.	8789057254 9790711355		
2	Wis Tes-Amm India Pvt. Ltd.,	Plot No.A-18.SIPCOT Industrial Growth centre, Pannuti A1 Willage, Sriperampudur Taluk, Kancheepuram Dt	9841120734	admin[a/]tes-amm [.]net	
3	Mis Usrust Solution India Pvt 1.ht.,	Pappanskuppam Village,Gummidipoondi Taluk,Thiruvatur Dt.	9944331125	reachus[et] uitrusteolutione [.]com	
4	Mis. Victory Recovery & Recycle Technologies India Pvt 1 ht	Kottiyur Village, Tiruvallur Taluk & Dr	9551693935		

#### DETAILS OF E-WASTE DISMANTLING UNITS

S. No	NAME OF THE FIRM	ADDRESS	ADDRESS CONTA		
			PHONE NO.	E-MAIL	WEB SITE
1	M/a, Abishek Enterprises.	Ambattur Village & Taluk, Throvallur Dr.	5444458525		
2	Mrs. AER World Wide(India) Pvt. Ltd.	174, Elandhrichen, Sadayan Kussiam Wilage, Manali New Town Throvellur DL	0840620257		www[.]aerworktwide []com
3	M/a, fLV Enterprises	S F No 42/1, Perambakkam Road, Thandalam Village, Sriperambatu/ Taluk, Kancheepuram District.	8754415387		
-	MIS CEMS RECYCLING	S.F.No.222-3, Plot No.147/A, Nesrvalur Villago Kancheepuram Taluk&Dt.	9345655656	conduct[at]global wastemanagement [.]com	X
9	M/s. Green R2 ReProcessors Pvt Ltd,	Plot No. 19, TASS Industrial Estate, Bharsali Chemical Aschue, Ambattur, Chemisi-98.	9840067646		
6	Mm. IIIAA Enterprises.,	Piot No.AC-31/24 SIDCD Industrial Estate. Thirumudivakkam Wilage. Snowrumpudur Taluk, Kuncheepuram Dr	44 - 28547333		www.jinasentorprises jioom
1	Wis Louis Traders_	S.F.No41/1, Part Gudalore Milage, Chengalpactu Tatuk, Kancheepuram Et	9386889811		
3			9884499191		

http://www.tnpcb.gov.in/ewastemgt.htm

8/7/2015

#### E-Waste Recycling Approved by Tamil Nadu Pollution Control Board



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#### Page 2 of 2 :: Tamil Nadu Pollution Control Board :: 23 628067 2262806 No DP-29, Phase IV&V,SIDCO Industrial Estate: Poppakuppam vilage, Gummidipoondi, Tiruyahur Taluk SDistrict. Piot No. A-7, Phase - I MEPZ -SEZ, Kadisper I unibaram Taluk, Kanchipuram District. 85 AP 941,60h Street, 11th Postor VK Neoro, Checesh 29 Mis. Shri Raaam Recjong. M/6. Trishyiraya Recycling India Tvt. Ltd., NEONPLOC Barnarou 9444036557 10 Mm. Trrech Systems. tri abdullah[at] ector, KK Nagar, Chennai-78 hoo com / abdulla 9003077866 [81] vastetritech(.]com

#### DETAILS OF E-WASTE COLLECTION CENTERS

S. No	NAME & ADDRESS OF INDUSTRY	CONTACT NO
	M/s, Apple India Private Ltd., C/o, M/s, Kushne Nagel India Private Ltd., 41842, Koduvalli karanai Villaga, Redhills to Thiruvallur High Roed, Chermai - 55.	9176664268
2	Ms. Canon India Private Ltd 2 nd Floot. Wood Head Center, No 23, Sivaganga Road, Nungampakkam, Channai-34.	9840847786
ł	Mis. Daikin Akroohdisoning India Pvt Ltd., Flat No.1, D Block, Ground Floor, Gemini Parsir Apartments, Door No 599(Old No.121), Anna Salai, Chemisi 600.006.	044-24314210
÷.	M/s E Panisariua Pvt Ltd. Plot No 150(Part) Perunkudi industrial Estate. Perunkudi, Cherman803.091	B940198471
5	Mis, Kulyan Enterprees. 73 Kontut High Road, Annal Indra Nagar, Ayanavaram, Chennal-600 023.	9444050750
5	Mis. Param Enterprises. Piot № 3, Periyar Salai, Kovilampakkam, Chenmai 600 117.	\$444029695
Ę.	Min. Bohenker India Private Ltd., C/o. M/s. Lenova India Pirt Ltd., No 438/3A-3D, Killi Road, Manampakkam, Near Agaisen College, Machavaram (Po), Chennai-800 060.	9676206460

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Sib Sankar Bandyopadhyay

TAPLERAMENA STELLER PAPERSONNES



ITC LIMITED - PAPERBOARDS & SPECIALTY PAPERS DIVISION

Sincerely thank ANET University

for partnering with WOW-Wellbeing Out of Waste, a Nationwide Recycling Initiative of

ITC and contributing11861 kgs of dry recyclable waste for recycling during FY 2018-2019.

We look forward to your continued support in making India

SWACHH & GREEN RECYCLE MORE & PROTECT ENVIRONMENT

## Letter of Appreciation from ITC on recycling of Paper



**E-Waste Collection Campaign** 



# AMET (ACADEMY OF MARITIME EDUCATION AND TRAINING) (A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)





**E-Waste Awareness Camp** 



(A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)



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		AMET Busine	ss School		
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	IS	SUES AND CH	HALLENG	S	
n E-Waste M	lanagement	and Environn	nent Prote	ection by Tre	e Plantation
		an annual alte	m wim		
Asso	ation of A	Illiance Clu	bs Interi	national, C	hennai
Governmen	Higher Sec.	School, Meen	ambakkar	n, Kancheep	uram District
1/-	-3	2 <sup>nd</sup> Augus	1, 2019		

As a part of this initiative students were educated about the awareness of E-Waste and Environment Protection through Pamphlets. As per the request given by programme co-ordinator, the school authorities conducted competition for students from class 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> Standard in Drawing, Oratorical completion and Poem Writing about the importance planting trees and how it helps to protect the environment in today's pollution due to e-waste and others plastic materials.

Pamphlets highlighting the need for the same specially prepared for this purpose were also distributed amongst the students.

Prizes sponsored by AACI, Chennai were distributed to the winners and participants.

**E-Waste Awareness Camp** 



(A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)





**E-Waste Awareness Camp** 



(A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)



The School Authorities were very appreciative of efforts taken by the team and have shown their interests in the conduct of such useful Programme even in future. As a token of their appreciation for the work done, the Head Mistress has issued a Letter of Appreciation thanking the authorities of the University and Dr. Dr.D.Arivazhagan and his team.

**E-Waste Awareness Camp** 



(ACADEMY OF MARITIME EDUCATION AND TRAINING)

(A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)

# மின்னணுக் குப்பை பரமரிப்<u>பு & சுற்றுச்சூழல்</u> பாதுகாப்புக்கு பெரிதும் உதவுவது மரம் வளர்ப்பது

அமட் (AMET) பல்கலைக்கழகம்

மின்னணுக் குப்பை(E-Waste) எனப்படுவது பயன்படுத்தப்படாமல் எறியப்படும் மின்சார மற்றும் மின்னணுக் கருவிகள் மற்றும் அவற்றின் உதிரிப்பாகங்களைக் குறிக்கும். இத்தகைய கருவிகள் பொதுவாக பழையதாகி கோளாறாகி விடுவதன் காரணமாகவோ அல்லது அவற்றை விட திறன்மிக்க கருவிகளைப் பயனர்கள் வாங்குவதாலோ இவை எறியப்படுகின்றன.

இவ்வாறு எறியப்படும் கருவிகள் பல நச்சுத்தன்மை கொண்ட பாகங்களைக்

#### கொண்டுள்ளன. இவை *சுற்றுச்சூழக்கு ஊறு*

*விளைவிக்கின்றன.* பாதரசம், காரீயம், போன்ற உலோகங்களை இவை கொண்டுள்ளன.

இவ்வாறு எறியப்படும் கருவிகள்:

- துவையல் எந்திரம் போன்ற பெரிய கருவிகள்
- மின்னலை அடுப்பு போன்றவை.
- மின்னணு இசைக்கருவிகள்,தொலைக்காட்சி போன்ற பொழுதுபோக்குக்கருவிகள்
- கணினி மற்றும் அவற்றின் உதிரிப்பாகங்கள்

மின்னணுக் கழிவுகளில் <u>தங்கம்</u>, வெள்ளி, <u>செம்பு, அலுமினியம்</u> உள்ளிட்ட உலோகப்பொருள்கள் கிடைப்பதால் காயலான் கடைக்காரர்கள் அவற்றின் மீது ஆர்வம் காட்டுகின்றனர். மின்னணுக் கழிவுகளை எரிப்பதால் வெளியாகும் டையாக்சின் நச்சுவாயு சுவாச நோய்களை ஏற்படுத்தும் என மருத்துவர்கள் எச்சரித்துள்ளனர். மேலும் <u>காரீயம், குரோமியம், காட்மியம்</u> உள்ளிட்ட வேதிப்பொருள்கள் வெளியாகின்றன. இவற்றால் உடல் உறுப்புகள் பாதிக்கப்படும் என்றும் மருத்துவர்கள் தெரிவிக்கின்றனர்

<u>ஐ.நா.சபை</u> அறிக்கையின்படி மின்னணுக் கழிவுகள்

பிரச்னையில் <u>ஆசியாவில் இந்தியா</u> இரண்டாம் இடத்தில் உள்ளது. இந்திய சுற்றுச்சூழல் மற்றும் வனத்துறை அமைச்சகத்தின் புள்ளி விவரப்படி இந்தியாவில் மின்னணுக் கழிவுகளை உருவாக்குவதில் <u>மும்பை</u> முதலிடத்திலும், இரண்டாம் இடத்தில் த<u>மிழகமும்</u> உள்ளன. மின்னணுக் கழிவுகளில் 5 சதவீதம் மட்டுமே முறையாக மறுசுழற்சி செய்யப்படுகிறது

2011ஆம் ஆண்டு கணக்கின்படி தமிழகத்தில் மட்டும் 28,789 டன் மின்னணுக் கழிவுகள் சேர்ந்துள்ளது . இதில் <u>கணினிக்</u> கழிவுகள் மட்டும் 60 சதவீதம் என்றும் தெரியவந்துள்ளது

**E-Waste Awareness Camp Report** 



(ACADEMY OF MARITIME EDUCATION AND TRAINING)

(A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)

#### சுற்றுச்சூழல்

சுற்றுச்சூழல் என்பது குறிப்பிட்ட ஒரு பொருளையோ அல்லது உயிரினத்தையோ சுற்றியுள்ள இயற்கைச் குழலைச் குறிக்கின்றது. அதாவது உயிரினங்களும் அவை வாழும் பகுதியில் உள்ள காற்று, நீர் போன்றவையும் அடங்கிய இயற்கை அமைப்பு சுற்றுச்சூழல் ஆகும்.

#### சுற்றுச்சூழல் மாசுபடுதல்

இயற்கையமைப்பில் அமைந்துள்ள அனைத்து உயிரினங்களும் தங்களது பங்களிப்பை சிறப்பாக செலுத்துகின்றன. ஆறறிவு பெற்ற மனிதன் மட்டும், தன்னை தன் சுய லாபத்திற்காக இயற்கையாய் அமைந்துள்ள அனைத்தையும் வரைமுறை இல்லாமல் அழிக்கத் தொடங்கிவிட்டான். அதன் விளைவாக மனித சமூகம் இன்று சுனாமி, புவி வெப்பமடைதல், ஓசோன் படலத்தில் ஓட்டை என பல பிரச்சினைகளை சந்திக்க வேண்டியுள்ளது. தொழிற்சாலைகளில் இருந்து வெளியேறுகின்ற கழிவுப்பொருள்களால் சுற்றுச்சூழல் பெரிதும் பாதிக்கப்படுகிறது. காற்று மாசு படுகிறது. காடுகளும் காடுகளில் காணப்படும் மரங்களும் வியாபார நோக்கத்தில் அழிக்கப்பட்டுள்ளது. அதன் விளைவாக, மழை பொய்த்து போயின. பருவநிலை மாறி உள்ளது. பருவநிலை மாற்றதின் காரணமாக பல்வேறு சிக்கல்களை எதிர் கொள்ள வேண்டியுள்ளது.

#### சுற்றுச்சூழல் பாதுகாப்பு

சுற்றுச்சூழல் பாதுகாப்பு என்பது தனிமனிதனோ, அமைப்போ, அல்லது அரசாங்கமோ இயற்கை குழல் பாழாகாமல் பாதுகாக்கும் செயலாகும். மக்கள்தொகை மற்றும் தொழில்றுட்ப லளர்ச்சியின் விளைவாக பாதிக்கப்படுகிறது. இதை உணர்ந்த அரசாங்கங்கள், அரசு சாரா பொதுநல அமைப்புகள், சுற்றுச்சூழல் சீரழிவிற்கு காரணமான செயல்களைக் கட்டுப்படுத்தி நடவடிக்கைகளை எடுக்க தொடங்கியுள்ளன. பல்வேறு சுற்றுச்சூழல் பிரச்சினைகள் பற்றிய விழிப்புணர்வை ஏற்படுத்தியுள்ளது. மனித நடவடிக்கைகளினால் சுற்றுச்சூழலில் தாக்கம் எந்த அளவிற்கு ஏற்படுகின்றது என்பது தெளிவாக அளவிடமுடியவில்லை. சுற்றுச்சூழல் சட்டங்கள், நெறிமுறைகள் மற்றும் கல்வி மூன்றும் பின்னிப்பிணைந்து சுற்றுச்சூழல் பாதுகாப்பிற்கு வழிவகுக்கின்றன.

சுற்றுச்சூழல் பாதுகாப்பு முறைகள், சுற்றுச்சூழல்கல்வி, சுற்றுச்சூழல் மேலாண்மை மற்றும் சுற்றுச்சூழல் பொறியியல் போன்ற படிப்புகள் தற்போது பல்வேறு நிலைகளில் வழங்கப்படுகின்றன.கழிவு உற்பத்தி, காற்று மாசுபாடு மற்றும் பல்லுயிர் இழப்பு (துண்ணுயிரிகளின் மற்றும் உயிரினங்களின் அழிவு) முதலியவை சுற்றுச்சூழல் பாதுகாப்பு தொடர்பான பிரச்சனைகளாகும். இப்பிரச்சனைகளுக்கு மேற்கண்ட படிப்புகள் தீர்வுகளை தர வேண்டிய கட்டாயத்திற்க்கு உள்ளாகியுள்ளது.

**E-Waste Awareness Camp Report** 

(ACADEMY OF MARITIME EDUCATION AND TRAINING)

(A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)

மேலும், அரசு பல நடவடிக்கைகளை இன்னும் எடுக்க வேண்டியுள்ளது. புதிய சிந்தனை மற்றும் தொலைநோக்கு பார்வையில் அணுகவேண்டும்.

எங்கும் எதிலும் மாசுகள் கலந்துள்ள இன்றைய உலகில் ஒன்று இதனை எதிர்கொள்ள வேண்டும். இல்லையேல் மாசற்ற உலகினை உருவாக்க வேண்டும். இதில் இரண்டாவது வகை சாத்தியமல்ல. ஆனால். முதல் வகை நம்முடைய கட்டுப்பாட்டில் இருப்பதனால் அதனைக் கடைபிடிப்பது சிரமமான காரியமல்ல. கீழ் கண்டவற்றின் மூலம் சுற்றுச்சூழலை பாதுகாக்கவோ அல்லது பாதிப்பை குறைக்கவோ முடியும்.

சுத்தப்படுத்துதல் பிரச்சாரம் சுற்றுச்சூழல் விழிப்புணர்வு பிரச்சாரம் காற்று மாசுபாடு தவிர்த்தல், தண்ணீர் மாசுபாடு தவிர்த்தல், மரம் நடுதல்

ஆகியவற்றின் மூலம் சுற்றுப்ப்புறத்தை பாதுகாக்கலாம்

## " சுவாசிக்கும் மக்கள் அனைவரும் மரம் நட வேண்டும்"

"மரங்கள் தான் மனிதர்களின் நுரையீரல், நம்மை நாம் காத்து கொள்ள வேண்டுமென்றால், மரங்களை காப்பது அவசியம்"

மரங்கள் வெளிவிடும் காற்றை, நாம் சுவாசிக்கிறோம்; நாம் வெளிவிடும் காற்றை, மரங்கள் சுவாசிக்கின்றன. அந்த வகையில், மரங்கள் தான் நம் நுரையீரலாக செயல்படுகின்றன. துரையீரலை பாதுகாப்பது நமது கடமை இல்லையா? அந்த வகையில், நம்மை நாம் காத்துக் கொள்ள, மரங்களை காப்பாற்ற வேண்டும்.

உலகிலேயே தமிழகம் தான், 12 ஆயிரம் ஆண்டுகளாக விவசாயத்தை தொடர்ந்து தொழிலாக செய்து வரும் ஓரே சமூகம். வேறு எங்கும் இதுபோல் இல்லை. இன்று கிராமங்களில், மற்ற எல்லாம் இருக்கிறது: ஆரோக்கியம் இல்லை. இதற்கு காரணம், நமக்கு தேவையான சத்தான உணவுகளை பயிர் செய்யவில்லை. எலும்பு வளர்ச்சி கூட முழுமை பெறாத அரைகுறை மனிதனாக தான் பலரும் உள்ளனர். இந்த நிலை மாற வேண்டும். மரங்களை வளர்ப்பது நம் அடிப்படை கடமைகளில் ஒன்று என்பதை நாம் உணர்ந்து கொள்ள வேண்டும். யார் யார் எல்லாம் சுவாசிக்கின்றனரோ, அவர்கள் எல்லாம் மரங்கள் நட வேண்டும். மூச்சு விடாதவர்கள், மரங்களை பேண வேண்டிய அவசியம் இல்லை

**E-Waste Awareness Camp Report** 



#### AMET (ACADEMY OF MARITIME EDUCATION AND TRAINING) (A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)

# 5. Hazardous chemicals and radioactive waste management:

A fume hood is a ventilated enclosure in which gases, vapors and fumes are contained. An exhaust fan situated on the top of the laboratory building pulls air and airborne contaminants through connected ductwork and exhausts them to the atmosphere.

As a part of the research work these fume chambers are been placed at the following research laboratories of AMET,

- Nano Photonics Laboratory
- Chemistry Laboratory
- Bio Technology Laboratory



Fume hood chamber for Hazardous waste disposal