

2023-24

E- WASTE AUDIT REPORT

**BALASAHEB THACKERAY LAW
COLLEGE**

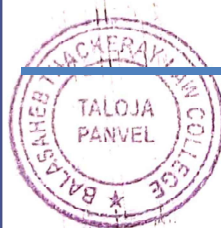



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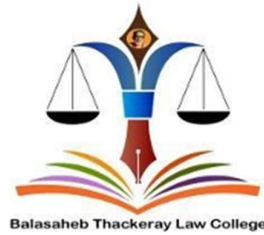
PREPARED BY: Talloja, Panvel
Dist. No. Sector - 11, Talloja, Panvel
Raigad - 410 208

VRINDAVAN LANDSCAPE & ECOLOGICAL SOLUTIONS



E- WASTE AUDIT REPORT

2023-24



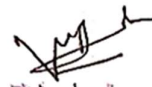
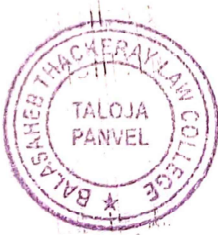
BALASAHEB THACKERAY LAW COLLEGE

PLOT NO. 73. SECTOR 17, TALOJA PHASE-2, TAL-PANVEL, DIST-RAIGAD, NAVI MUMBAI-410208

Prepared by

Vrindavan Landscape & Ecological Solutions

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Samal Ganeshji Paril Shikshan Sanshodh
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1.E- waste





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The term "e-waste" is an abbreviation of "electronic and electrical waste". A key part of the definition is the word "waste" and what it logically implies – that the item has no further use and is rejected as useless or excess to the owner in its current condition.


E-waste is any electrical or electronic equipment that's been discarded. E-waste is particularly dangerous due to toxic chemicals that naturally leach from the metals inside when buried.

1.Types of E-waste:

1. Large household appliances (refrigerators/freezers, washing machines, dishwashers)
2. Small household appliances (toasters, coffee makers, irons, hairdryers)
3. Information technology (IT) and telecommunications equipment (personal computers, telephones, mobile phones, laptops, printers, scanners, photocopiers)
4. Consumer equipment (televisions, stereo equipment, electric toothbrushes)
5. Lighting equipment (fluorescent lamps)
6. Electrical and electronic tools (handheld drills, saws, screwdrivers)
7. Toys, leisure and sports equipment
8. Medical equipment systems (with the exception of all implanted and infected products)
9. Monitoring and control instruments
10. Automatic dispensers.

2.Need of e waste managememe

Environmental Protection: E-waste contains toxic substances that can contaminate soil, water, and air if improperly disposed of. E-waste


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management helps prevent the release of hazardous materials into the environment, reducing pollution and safeguarding ecosystems.

2.1 Environmental Protection:

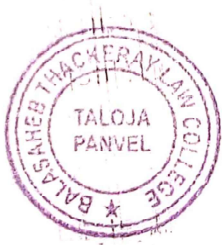
E-waste contains toxic substances that can contaminate soil, water, and air if improperly disposed of. E-waste management helps prevent the release of hazardous materials into the environment, reducing pollution and safeguarding ecosystems.

2.2 Resource Conservation:

Electronic devices contain valuable resources like gold, silver, copper, and rare earth materials to be recovered and reused, reducing the need for mining and preserving precious resources.

2.3 Health and Safety:

Improper handling of e-waste can expose workers and communities to hazardous substances. By implementing proper e-waste management practices, we can protect the health and safety of both humans and the environment.



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3. Types of E- waste in college campus:

E-wastes are generated from computer laboratories, electronic labs, Academic and Administrative Offices.



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Centralized data processing instruments, Mainframes, Minicomputers, Central Processing Units (CPUs), Input and output devices, Laptop, Desktop, Notepad.

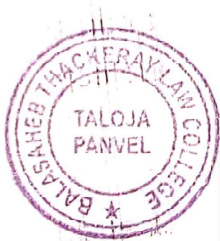
- Printers, Printer cartridges, Copying Equipment.

Electrical and electronic typewriters, Teleprompter terminals, Facsimiles, Telex machines.

- Telephones, Cordless telephones, Cellular telephones, Answering systems.

- Television sets based on Liquid Crystal Display (LCD) and Light Emitting Diode (LED) technology.

- Air-conditioners (excluding centralized air conditioning plants) • Fluorescent lamps, lamps which contain mercury, and other Consumer electrical and electronic items





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4. Process of e waste management in college campus:

BT law. college has very efficient mechanism to dispose E wastes generated from various sources.

4.1 Collection of E- Waste in BT LAW. college campus:

- 7- Waste collected from different department e.g. Principal room, office room and other department of BT law college building. Collected E- Waste segregated and then stored in a particular location for next process. It is observed that more E- waste Generated in IT department and Office room. E-waste store for exchange offer or dispose of too minimum price.



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4.2 Handed Over to process to E- Waste vender:

If there really is no way to reuse or return the item, BT law. college finding a reliable local organization who will recycle it. Collage taking the quotation for the different vender. College committee finalize the vender on the basis of their recycle process and e waste management system. Vender collected the material from BT law. college door steps.

PLATINUM PC SOLUTION

Address: Near Sagar Auto Spare Parts, Opp. Indian Oil Petrol Pump, Wadhkal Naka,
Pen - Raigad, Maharashtra. 402107. Email: platinumpcsolution@gmail.com
GST Number: 27ALAPT7044C1Z7, Mobile: 9225110085 / 9028260085

INVOICE

INVOICE NO.	
DATE	22/05

FROM :

BILLED TO :

Description	Qty	Unit Price	Amount
Laptop, printer, and keyboards	12		603/-RS



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4.3 Role of vender e-waste management:

1. Collection: Vender collected all E- waste from BT law. college. Sometime vender gives Buy-Back option at the time of new procurement.
2. Sorting: The first step in processing e-waste involves manual sorting to extract specific items, such as batteries and bulbs, for their own processing. During this stage, certain items may be dismantled by hand to recover valuable materials or components for reuse.
3. Mechanical separation: The mechanical separation of materials involves multiple sequential processes, with magnetic separation and water separation being the primary steps.
4. Magnetic separation: The e-waste is shredded and subjected to magnetic separation to extract ferrous metals like iron and steel, while non-ferrous metals are separated using eddy currents

5. Recovery: Once separated, the materials are readied for reuse and sale. Certain materials, like plastic or steel, are directed to other recycling streams. However, others can be processed onsite and sold directly, along with usable components extracted during earlier stages of the recycling process.

5.



Popular
E-waste disposal
methods in India

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Steps for e-waste management by college campus:

The disposal of E-waste is treated on priority basis and necessary action is taken by the College accordingly.

5.1 Minimizing the E-Waste:

1. BT law college Purchasing only environmentally friendly and Energy star label product.
2. College purchase products whose lifespan is longer, so that no need to replace it within a few years,
3. College staff maintaining their electronic product properly
4. computers and laptops Cleaning properly
5. Not over charged the laptops, mobiles and other electronic products so it will improve life span of product and battery
6. Taking these moves and making those simple changes, and encouraging others to do the same, will help greatly reduce e-waste



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5.2 Reduce the E-Waste:

1. BT law college staff maintaining their electronic product properly
2. computers and laptops Cleaning properly
3. Not over charged the laptops, mobiles and other electronic products so it will improve life span of product and battery
4. Taking these moves and making those simple changes, and encouraging others to do the same, will help greatly reduce e-waste.
5. College purchasing the electronics equipment's which is genuinely need and by the extending the life span of devices through proper maintenance.



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5.3 Reuse the E-Waste:

- Some electronic waste contains components that can be reused again and again. College either take functional components for use in new electronic products or recycle whole, functional electronics products, e.g. monitors, memory cards, SSD hard drives, graphics cards and more.



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- Whenever possible, consider reusing electronic devices or donating them to organisations that can make use of them.




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5.4 Recycle the E-Waste:

- BT law college taking the quotation for the different vender. College committee finalize the vender on the basis of their recycle process and e waste management system. If there really is no way to reuse or return the item, College finding a reliable local organization who will recycle it.



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5.5 E- waste awareness programs in college campus:

The level of e-waste awareness in India is relatively low. Many people in the country are not aware of the importance of e-waste recycling and the potential dangers of improper disposal. This lack of awareness has a significant impact on the environment and public health. These chemicals can cause serious health problems such as cancer, birth defects, and neurological damage.



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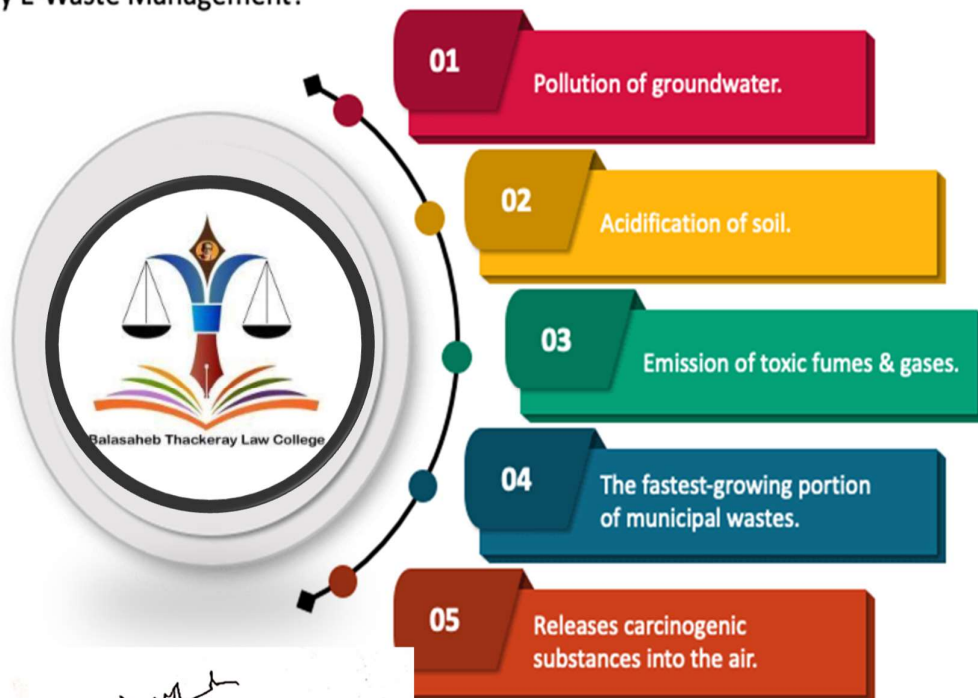
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The BT law college organize the e-waste awareness campaigns in college campus by N.S.S Unit.

E-WASTE MANAGEMENT

Why E-Waste Management?



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5.6 Evaluation and Auction committee:

BT law college has a committee for Safe disposal of unwanted and Damaged Material from the college campus.

Functions:

The committee Identified material (damaged / unwanted) in the campus

- Confirm its disposability by the committee members.
- Advertise / notify the sale of the material.



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- Invite the quotes.
- Conduct the Auction process.
- Will decide / finalize the bid.
- Credit the amount to the concerned college account.
- Record / maintain the above documentation & conduct the process transparently.
- Utilize the generated fund for welfare of the college


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5.7 International E-waste Day:

The BT law college celebrated International E-waste Day on **14th October**. It aims to highlight the growing issue of electronic waste and promote responsible e-waste management.



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6. Audit Report:

The audit report is a key deliverable which shows the end results of the entire audit process.

6.1 Observations:

College initiatives for E-Waste management:

- Formed Evaluation and Auction committee



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- E-waste is given to the authorized vendor approved from college.
- Applying the concept of reduce, reuse and recycle.
- College was organized an awareness programme on 'Proper e-waste Disposal




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6.2 Suggestions:

Don'ts:

- Do not dismantle your electronic Products on your own
- Do not throw electronics in bins having a "Do not Dispose" sign.
- Do not give e-waste to informal and unorganized sectors like Local Scrap Dealer/ Rag Pickers.



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- Do not dispose of your product in garbage bins along with municipal waste that ultimately reaches landfills.

DOS:

- Always look for information in the catalog with your product for end-of-life equipment handling.
- Ensure that only Authorized Recyclers/Dismantler handle your electronic products
- Always call our toll-free No's to dispose of products that have reached end-of-life
- Always drop your used electronic products, batteries, or any accessories when they reach the end of their life at your nearest Authorized E-Waste Collection Points.
- Always disconnect the battery from the product, and ensure any glass surface is protected against breakage.

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6.3 E – waste management committee



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Date: 01/02/2023

E-Waste Management Committee for 2023-24

Sr. No	Name	Designation
1	Adx. Vaishali Borade	IQAC - Coordinator
2	Mrs. Anupam Jaiswal	Member
3	Mrs. Rupali Awari	Member

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6.4 E-Waste management certification & appreciation:



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Certi.no: PLTPCS/23/04

CERTIFICATE OF APPRICIATION

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For exemplary and continues efforts for the scientifically E-Waste management and environment friendly practices in the campus for the year 2023-24


Given on May 27, 2024



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platinumpcsolutions@gmail.com
 Near Sager Auto Parts, Vadkhal, Pen- Raigad.

Project Head
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