



TERNA ENGINEERING COLLEGE, NERUL

**Environmental Consciousness and
Sustainability**

(7.1.3 - Solid waste management Liquid waste management E-waste management)

Management of the various types of degradable and non-degradable waste

Waste Management at Campus

TEC is conscious about waste management and takes necessary efforts towards a sustainable environment. In line with the Swatch Bharat Abhiyaan, TEC prioritizes cleanliness on campus and encourages students and staff to follow effective waste management practices which include reduction at source; segregation and implementation of 3R's i.e. REDUCE, REUSE and RECYCLE before disposal. TEC has a well-defined mechanism for waste disposal and sensitizes students and staff regularly in different ways as follows:

Solid Waste

Towards Solid Waste Management, TEC has taken the following steps:


TEC appointed Ashok Global solutions Pvt Ltd. for Housekeeping services for keeping campus clean. Solid waste is segregated at source. Organic waste is collected in **green dustbins** and non- biodegradable (Dry) waste in **blue dustbins**. The waste pickup and collection is done by housekeeping staff. The Municipality staff collects dry waste twice a day. TEC initiated a drive to REDUCE plastic usage to the minimum essential, on and off the campus.

Installed a Composting Plant where all the cafeteria organic waste and gardening waste is converted to good quality manure which is used for in-house gardening and also distributed among staff and students to promote positive practices on waste management.

Project related to handle food waste generated in campus was initiated by students.

TEC made provision for segregating dry waste as paper waste, plastic waste and metal waste which is given to vendors for recycling.

Organized a seminar to create awareness on waste management with reference to the landfill site at Turbhe dumping ground.


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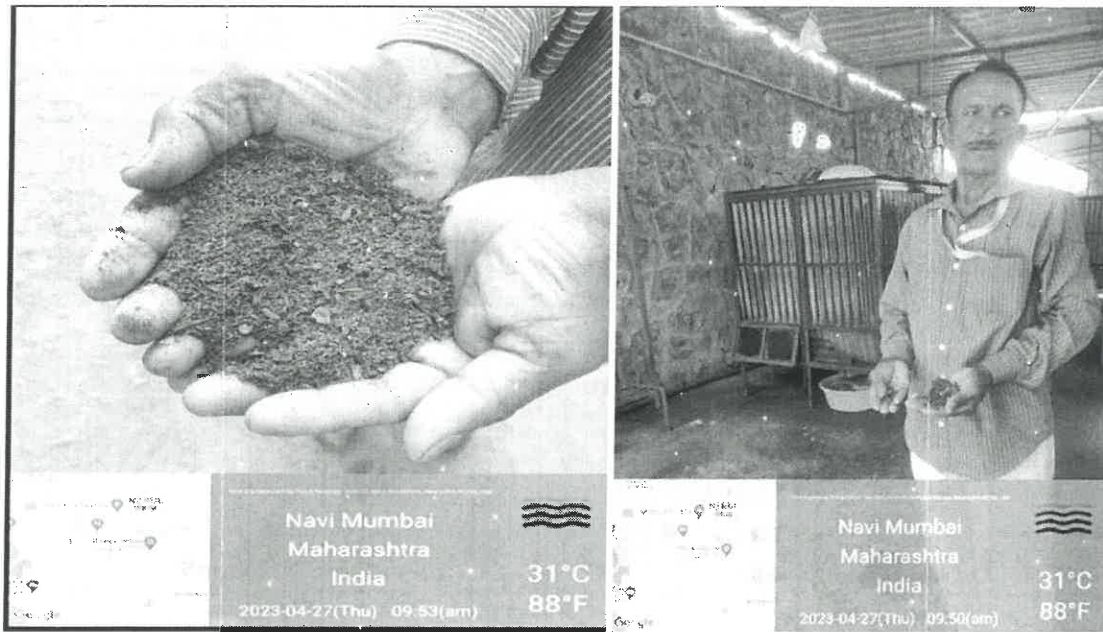


Figure 1 Compost Prepared from compost pit in campus

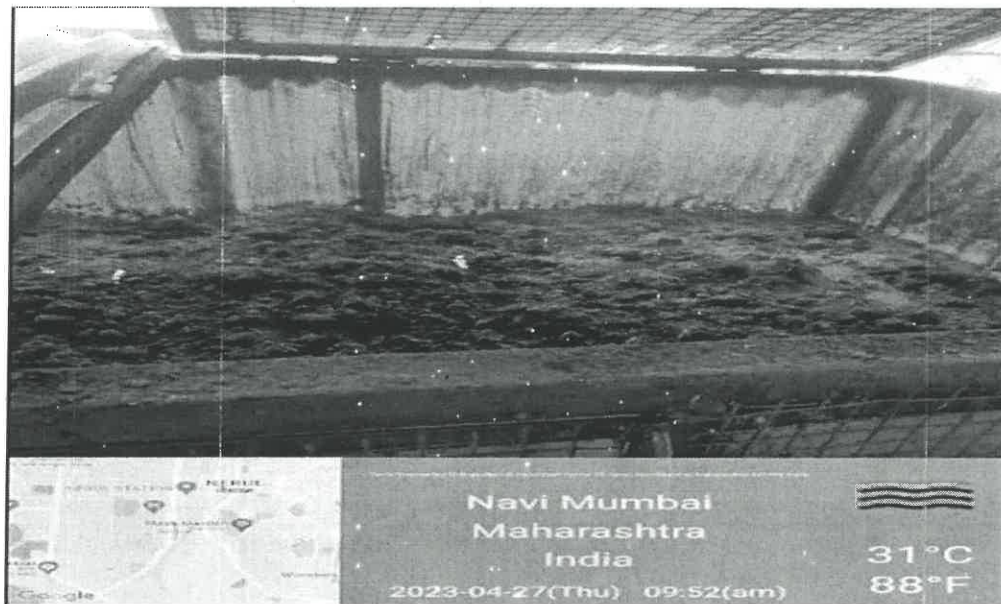


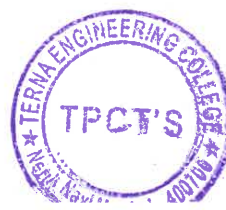
Figure 2 Composting Pit

E -waste management

Institute takes efforts to minimize e-waste. Regular maintenance by technical staff and reutilization of spare parts of discarded electronic devices is a common practice.

To sensitize students and staff on careful disposal and management of electronic waste, Non-functional computers, monitors and printers are discarded on a systematic basis. Agreement is signed with Balaji vender for Scrap disposal. The Awareness programme/campaign was an initiative to sensitize an impart knowledge among the teachers and students and NGO employees about the proper management, disposal and channelization of E-waste, thereby reducing the impact of hazardous substances on the environment and encouraging


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environmentally sound recycling through collective efforts of all the stakeholders involved in the entire E-waste value chain.



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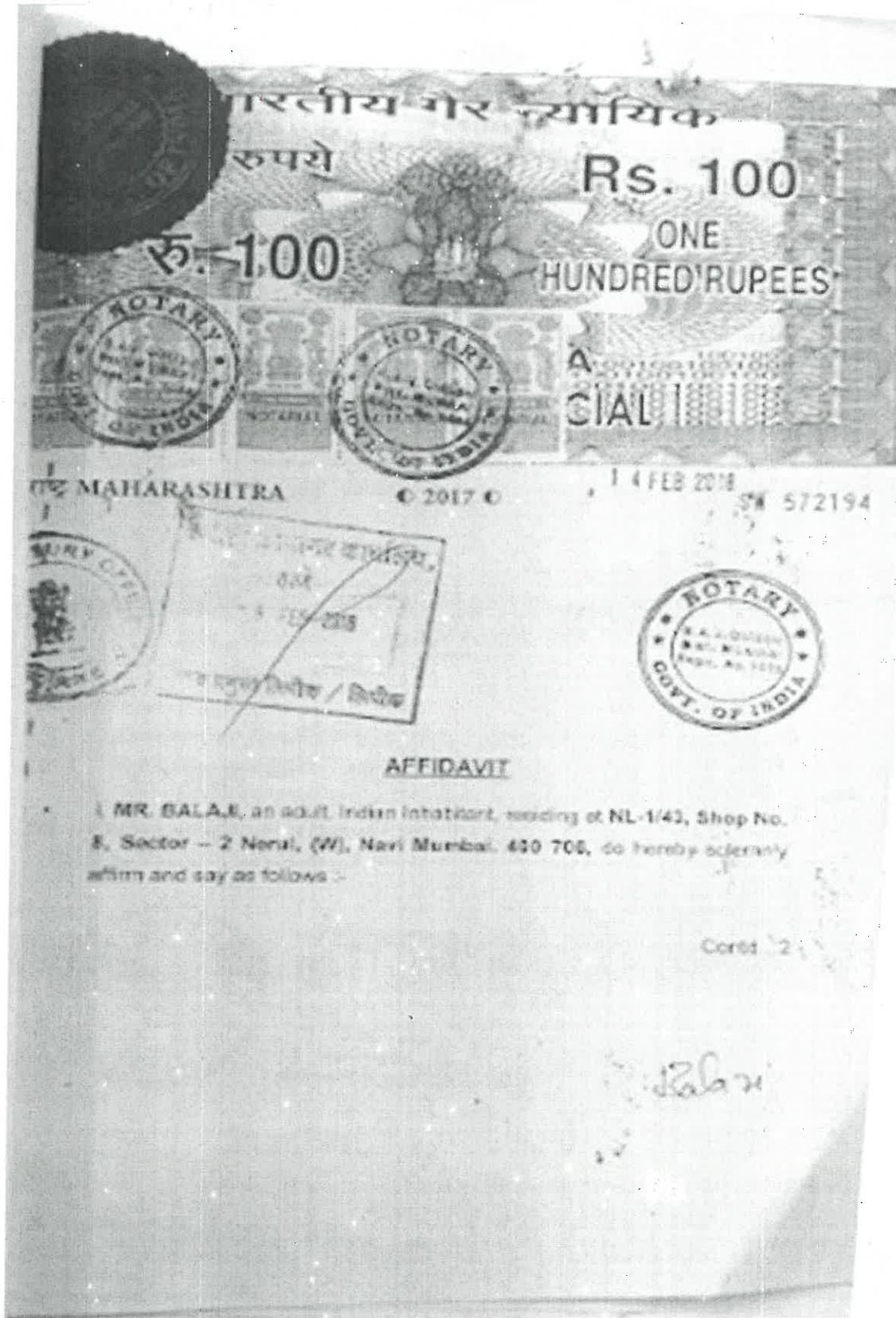
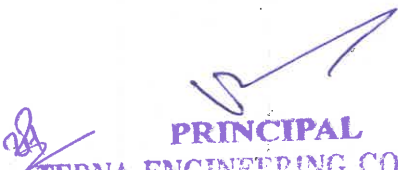
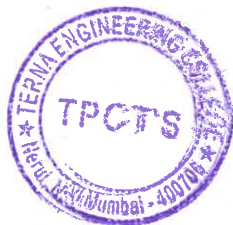


Figure 3 Agreement copy


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BALAJI COMPUTER PVT. LTD.

Waste No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Date: 18.12.2021

To
Terna Engineering College,
Neral

CERTIFICATE FOR E-WASTE DISPOSAL

This is to Certify that E-waste received on dated 06.12.2021
for recycling has been safely disposed of at our registered facility
in an environmental friendly manner.

Waste list is attached.

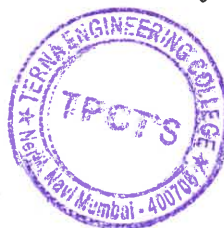
Robin
Yours faithfully,

For Balaji Computer Pvt. Ltd.
For BALAJI COMPUTER

Proprietor

Figure 4 E waste Agreement copy


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Terna Engineering College, Nerul, Navi Mumbai

Staff Name: Mundhe P.N. / Estate Officer
 Dept: store / office
 Designation: store keeper / supervisor
 Date: 05/12/2018
 Through: Head of Dept.

To: Principal
Terna Engg. college
Nerul, Navi Mumbai

Subject: वेविमाग्याच्या मागणीनुसार रद्दी पेपर देण्यास शाखना
वरील विद्यार्थी अहमदन G/E Dept. च्या मागणीनुसार तोचिन्
अहमदन रद्दी पेपर व इतर नगरन ठरीता एडुग गिने करनीकुन
दरपत्रके घेउन लुनतासक इरपत्रक बनवसे आहे. व निजी विमाग्य
त्यामधील सर्वांग नाम रकमेनुसार घरीत्य घरेली ठरघार
Eloji Computer Service, Conant, Nerul ह्या कंपनीस साहीत्य
देण्यास हरकत नाही. मागरीन काव.

Respected Sir,

Signature of Applicant: [Signature]
 Name: Mundhe P.N. 80708

Encl: खपतीपत्र / requirement /
comparative statement.

[Signature]
05/02/18

PT

Figure 5 Application for waste paper collection

Hazardous Chemical Waste Management

In our Applied Chemistry we are not using Hazardous chemical waste includes toxic, flammable, reactive, or corrosive materials. Generally following steps are used in chemical management:

A. Identification and Classification

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- Proper labelling of waste to identify chemical properties.
- Classification into categories such as acids, bases, solvents, heavy metals, and other toxic substances.

B. Collection and Segregation

- Using designated containers resistant to chemical reactions.
- Segregating incompatible chemicals (e.g., acids and bases).

C. Treatment Methods

1. **Neutralization:** Treating acidic or basic waste to achieve neutral pH.
2. **Chemical Precipitation:** Converting soluble hazardous substances into insoluble forms for easier removal.


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