

### 7.1.2: The Institute Has Implemented various facilities and Initiatives to promote environment-friendly practices

#### 1. Alternate sources of energy and energy conservation measures:

The institute has established system of a 120 kW Solar system since 2017 as a part of an alternative energy initiative. The percentage of power requirement of the College met by the solar system is 41- 45 kW.



*Solar panels at rooftop*



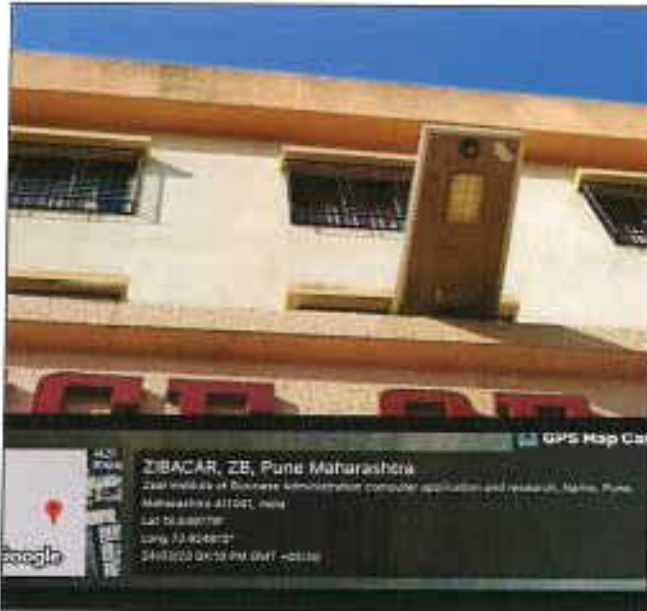
ZEAL EDUCATION SOCIETY'S  
**ZEAL INSTITUTE OF BUSINESS ADMINISTRATION,  
COMPUTER APPLICATION AND RESEARCH (ZIBACAR)**  
NARHE | PUNE | INDIA



PUN CODE: IMMP013170

DTE CODE: 6152

AISHE CODE: C-41828

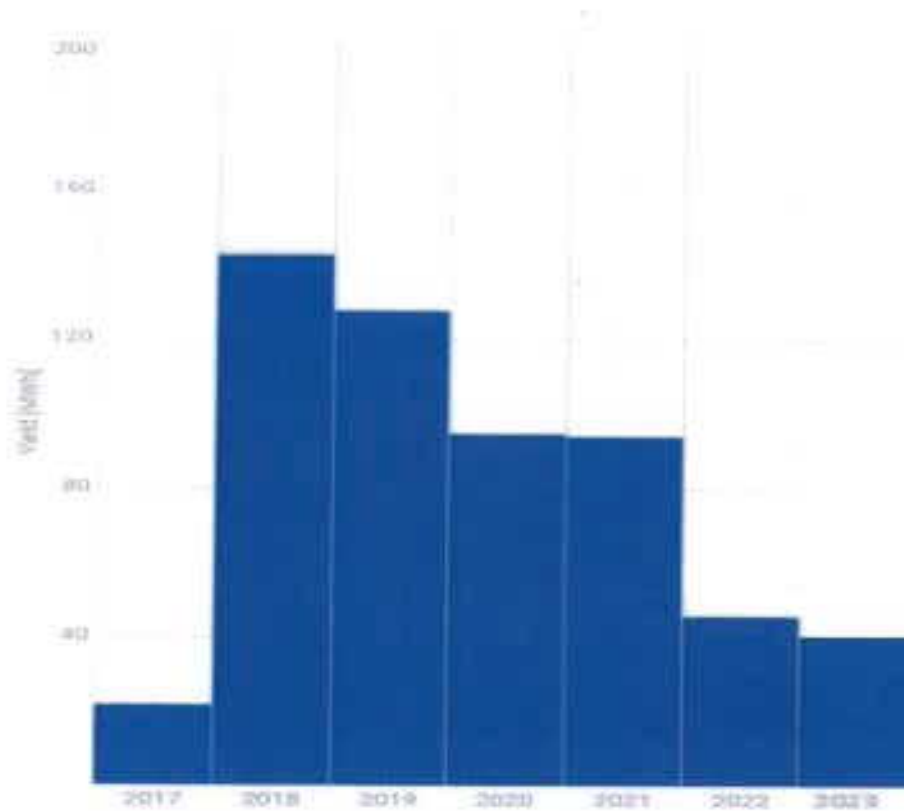


Solar Lamps in Different Buildings





The power generated through this solar grid is monitored through android technology.



*Typical screen android application showing solar power generation*







The campus has solar powered street lighting. Each building entrance light is being equipped with sensor based lighting system.



*Solar street lights*

**Energy Savings with use of LED** – LED is a highly energy efficient lighting technology. Widespread use of LED lighting has the greatest potential impact on energy savings, and a total savings on today's electricity prices. In Our Institute, CFL's are replaced with LED tube lights, LED bulbs in all the Classrooms, Offices and premises etc.

Photos - Use of LED's





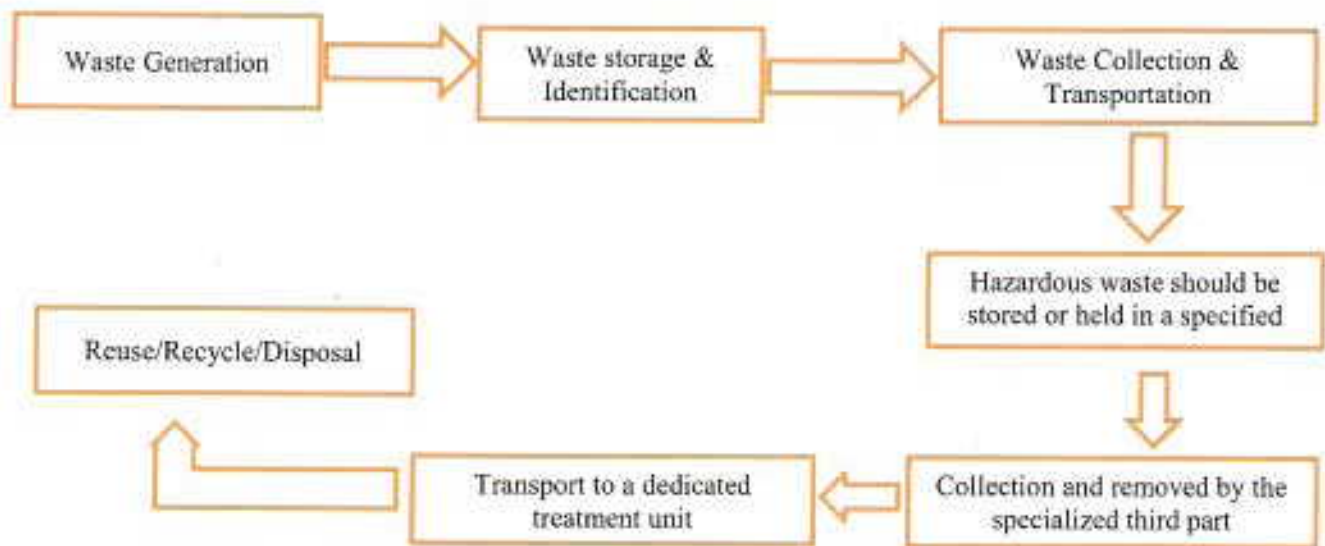
## 2 Management of the various types of degradable and non-degradable waste

Effective management of waste – either by disposal or recycling, is a critical process for any organization as it impacts the health and environment of not only the people working and living in the campus but also of those living in the vicinity.

The campus has an efficient system for waste management. The housekeeping team takes care of this segregation of solid waste which mainly includes waste paper, garden waste, and plastic waste. Handling over the collected waste in a segregated manner to local authorities is practiced every alternate day.

No biomedical waste is generated on the campus. In case of any occasions like blood donation camps, sports, etc.; care is taken to hand over the biomedical waste to authorized agencies whenever required.

### Waste Management Cycle







*Photograph showing a typical segregated waste collection system*



*Photograph showing typical solid waste collection system*







*Segregated Waste in Different bags and Uploading of dry & wet waste for transportation in PCMC Van*



For the collection of E-waste separate drive is arranged once a year. The collected E-waste is handed over to authorized agencies. Dustbins with standard color codes are placed at various locations for dry, wet, and e-waste



A paper shredding machine is maintained by the store department and these shredded papers are donated to industrial activities. The use of one-sided pages is practiced.



*Photograph paper shredding system*



*Paper Shredding Process*







### Incinerator in Ladies Washroom



## **E-waste Disposal Certificate**

This is to certify that the E-Waste received from **Zeal Institute of Business Administration, Computer Application and Research(ZIBACAR)**,

Narhe, Pune.

Dated **9<sup>TH</sup> Nov 2023** has been disposed off in an environment friendly manner vide Certificate No.**MPCB/RO (HQ)/HSMD/Autho/20/EW-07**.

We appreciate your contribution to a greener environment.

Approx weight. **40kg**.

**S K E-waste Disposal**  
(Recycling the E-waste)

**For S K E-waste Disposal**



**Authorized Signatory**





## MAHARASHTRA POLLUTION CONTROL BOARD

Phone :	24010437/24020781 124037124/240352Y3		Kalpataru Point, 3rd & 4th floor, Sion-
Fax :	24044532/24024068/24023516		Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E),
Email :	rohq@mpcb.gov.in		Mumbai - 400 022
Visit At :	<a href="http://mpcb.gov.in">http://mpcb.gov.in</a>		

### AUTHORISATION FOR COLLECTION, STORAGE & DISMANTLING OF E-WASTE BY RECYCLER/DISMANTLER

**Ref:** Your Application for Grant of Authorisation 30/06/2020.

1. **Authorisation no.:** MPCB/RO(HQ)/HSMD/Autho/20/EW - 07      Date: - 11/11/ 2020
2. **Mrs. S K E-Waste Disposal**, is hereby granted an authorisation for Collection, Segregation and Dismantling of E-Waste on the premises situated at **Gate No. 116, Fino Waight Bridge, Jadhavwadi, Chikhli, Tal:- Haveli, Dist:- Pune** for following:

Sr.No.	Nature of E-Waste	Code of E-Waste	Quantity & Unit
1.	Collection, Segregation, Dismantling and Refurbishing of E-Waste [As per schedule -I of E-Waste (M) Rules 2016]	ITEW - 1,2,3,4,5,6,7,8,9,10,11,12,13, 14,15,16 & CEEW - 1,2,3,4,5	250 MT/A

3. Authorisation is valid for a period valid up to 31/10/2025.
4. The authorisation is subject to the conditions stated below and such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.

#### Terms and conditions of authorisation

1. The authorisation shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made thereunder.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the Maharashtra Pollution Control Board.
3. Any unauthorised change in personnel, equipment as working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
4. It is the duty of the authorised person to take prior permission of the concerned State Pollution Control Board to close down the operations.
5. An application for renewal of an authorisation shall be made in form no. 4 before one twenty days of expiry of existing authorisation as per the procedure laid in sub-rule (3) of rule 13.
6. The authorisation shall cease to be valid in case of expiry of the validity or suspension of any of the existing consents under Water (Prevention & Control of pollution) Act, 1981 & Authorization under the E-Waste (Management) Rules, 2016, issued by Maharashtra Pollution Control Board (MPCB)/and shall remain invalid till consent (S)/authorization are obtained.
7. The Recycler or Dismantler of the E-Waste shall submit copies of valid Consents & Authorization also to the auctioneers/ sellers at the time of each procurement.



2/...

8. The Recycler or Dismantler of the E-Waste shall responsible to ensure that quantity of the E-Waste (S) procured each time is endorsed in this Passbook by authorized seller /auctioneer/ collection centre / bulk consumer/ producer of the E-Waste.
9. The authorised recycler /dismantler of the E-Waste shall follow guidelines for implementation of the E-Waste (M) Rules, 2016 published by the Central Pollution Control Board from time to time.
10. The recycler / dismantler shall not rent/lend/transfer this registration certificate.
11. Any change in the dismantling/recycling technology, disposal facility & equipment as given in the application only to be carried out with prior permission of MPCB.
12. The unit should carry out stack emission & ambient quality (AAQ) monitoring of for SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> & monitoring reports should be submitted by the unit to the MPCB, as per consent conditions.
13. At the time of submission of the application for renewal of authorisation, the unit should submit a copy of the "Authorisation and passbook" along with details of the quantity of E-Waste recycled / E-Waste dismantled / mode of disposal of Hazardous waste generated during validity period or authorisation & statement showing point wise compliance status of above conditions.
14. The transportation of E-Waste shall be carried out as per the manifest system whereby the transporter shall be required to carry a document (3 copies) prepared by the sender, giving the details as per form no. 6 under the provisions of rule 19 of the E-Waste (M) Rules 2016.
15. The Maharashtra Pollution Control Board may cancel or suspend a registration granted the E-Waste (M) Rules, 2016, if it has reasons to believe that authorised recycler / dismantler has failed to comply with any of the conditions of authorisation, or with any provisions for E-Waste(M) Rules, 2016 or rules made there under or conditions specified in the authorisation.

**5. Responsibilities of the Dismantler: -**

- a. Every dismantler shall obtain authorization from the Maharashtra Pollution Control Board in accordance with the procedure under sub-rule 3 of rule 13 of the E-Waste Rules, 2016.
- b. Every dismantler shall ensure that no damage is caused to the environment during storage & transportation of E-waste.
- c. Every dismantler shall ensure that dismantling processes do not have adverse effect on the health & the environment.
- d. Every dismantler shall ensure that the facility & dismantling processes are in accordance with the standards or guidelines published by the Central Pollution Control Board from time to time.
- e. Ensure that dismantled e-waste are segregated & sent to the registered recycling facilities for recovery of materials.
- f. Ensure that non-recyclable / non-recoverable components are sent to authorized treatment storage & disposal facilities.
- g. Maintain record of E-Waste collected, dismantled and sent to authorised recycler in Form - 2 and make such records available for scrutiny by Central Pollution Control Board or Maharashtra Pollution Control Board.
- h. File annual return in Form 3, to Maharashtra Pollution Control Board on or before the 30<sup>th</sup> day of June following the financial year to which that return relates.
- i. Shall not process any e-waste for recovery or-refining of materials, unless he is registered with Maharashtra Pollution Control Board as a recycler for refining and recovery of materials.





## 6. Responsibilities of the Recycler: -

- a. Every recycler shall obtain authorization from the Maharashtra Pollution Control Board in accordance with the procedure under sub-rule 3 of rule 13 of the E-Waste Rules, 2016.
- b. Every recycler shall ensure that no damage is caused to the environment during storage & transportation of E-waste.
- c. Every recycler shall ensure that dismantling processed do not have adverse effect on the health & the environment.
- d. Every recycler shall ensure that the facility & dismantling processed are in accordance with the standards or guidelines published by the Central Pollution Control Board from time to time.
- e. Ensure that non-recyclable / non-recoverable components are sent to authorize treatment storage & disposal facilities.
- f. Maintain record of E-Waste collected, dismantled, recycled in Form - 2 and make such records available for scrutiny by Central Pollution Control Board or Maharashtra Pollution Control Board.
- g. File annual return in Form 3, to Maharashtra Pollution Control Board in or before the 30th day of June following the financial year to which that return relates.
- h. Not process any e-waste for recovery or-refining of materials, unless he is registered with Maharashtra Pollution Control Board as a recycler for refining and recovery of materials.

7. This Authorisation is issued as per the recommendation of committee constituted by the Board in the meeting held on 14/11/2020 & 15/11/2020 and with the approval of competent authority.

8. Additional conditions: - .....

  
 (N. N. Gurav)  
 Regional Officer (HQ)

**Attachments: -**

- 1) Field Inspection Report Duly Signed by the Officer of the Board.
- 2) Passbook for maintaining records of purchase of E-Wastes.

To,

**M/s. S K E-Waste Disposal,**  
**Gat No. 116, Fine Weight Bridge, Jadhavwadi,**  
**Chikhli, Tal:- Haveli, Dist:- Pune.**

Copy to: Regional Officer, MPCB, Pune /Sub Regional Officer Pimpri Chinchwad, MPCB-They are directed to ensure the compliance of conditions prescribed in the authorisation.

