



St. Xavier's College Jaipur

Affiliated to the University of Rajasthan Approved under Section 2(f) and 12(B) of UGC Act, 1956
A Christian Minority Educational Institution under Section 2(g) of NCMEI Act, 2004



7.1 Institutional Values and Social Responsibilities

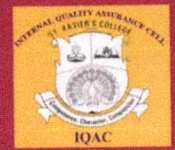
7.1.2 Facilities and Initiatives for:

7.1.2 (B) WASTE MANAGEMENT (VARIOUS TYPES OF DEGRADABLE AND NON- DEGRADABLE WASTE)

Waste Management Measures
(Report With Geo Tagged Photos)


Principal

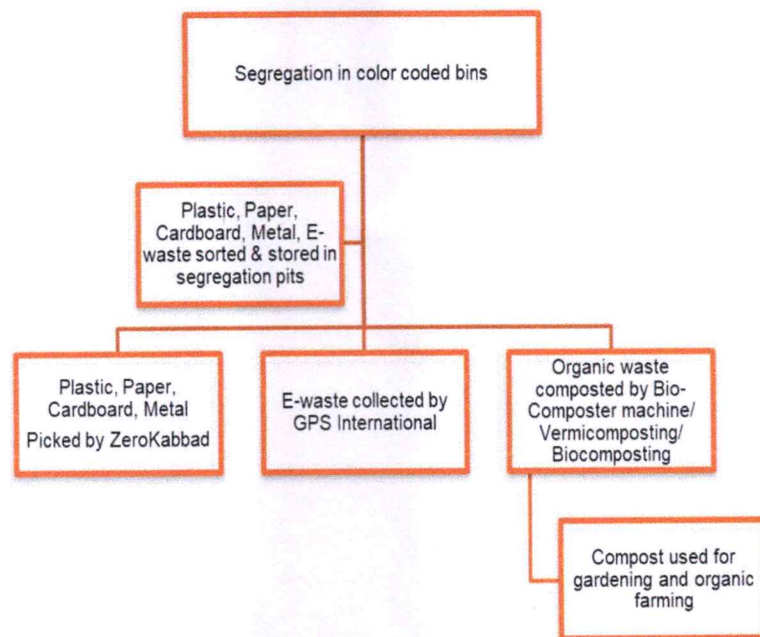
St. Xavier's College Jaipur
Nevta-Mahapura Road, Jaipur



Solid Waste Management in St. Xavier's College, Jaipur

Solid Waste Management

- The college has kept **100 waste bins** across campus for the **collection of wet and dry waste** separately, in tune with Swachh Bharat initiatives.
- We ensure minimum waste in our campus by promoting reusable tiffin boxes, water bottles, etc.
- Wastes are **segregated and treated separately**. **Very minimal waste** is produced in the campus, hence a **local authorised recycler** is employed to **collect waste on weekly basis**.
- **Used paper cups and food residue** containing paper plates **are incinerated by 100 L capacity GSW burner system**, the residue after the burning process goes back into the soil '*All the waste utilized are returned back to its resources as in cradle to grave*'.
- **Reduce, Reuse and Recycle** is the driving force behind waste management.



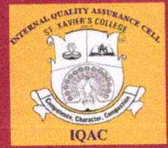
Jaipur
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7.1.2 WASTE MANAGEMENT PROCESS



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7.1.2 Segregation bins at Waste Site

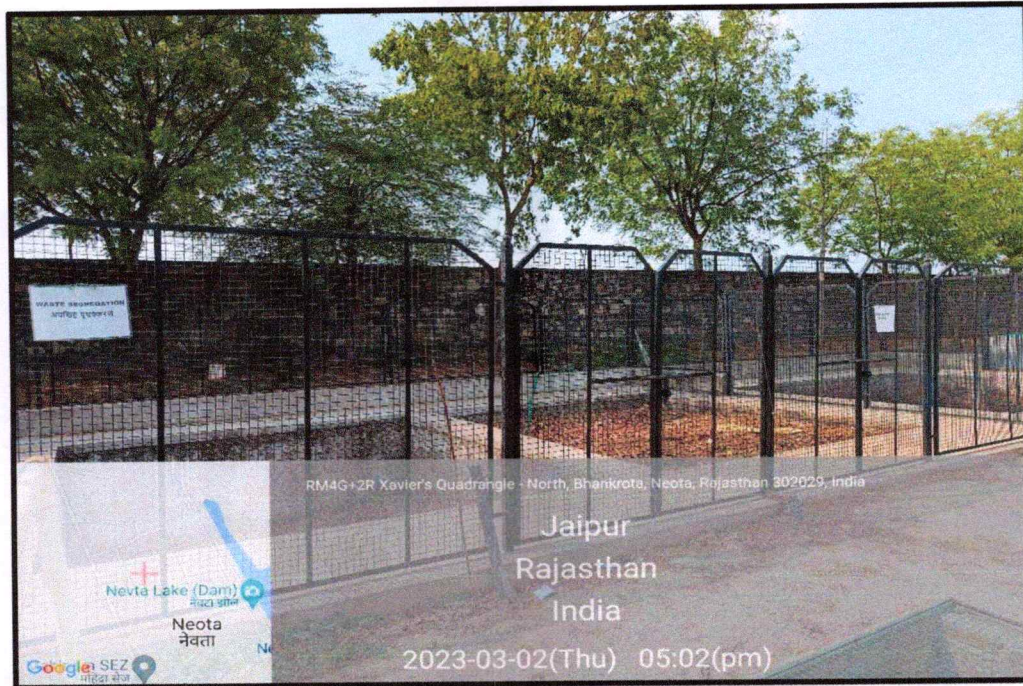
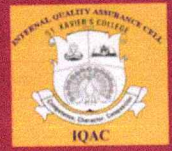


7.1.2 Wet & Dry Waste segregation bins



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7.1.2 WASTE PITS TO SEGREGATE WASTE



7.1.2 WASTE PITS TO SEGREGATE WASTE

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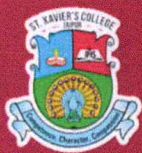
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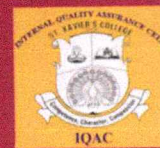

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LEAF AND GRASS LITTER MANAGEMENT IN ST. XAVIER'S COLLEGE, JAIPUR

- **Green Waste** - The campus is covered with different plant varieties – leaf litters, pruning and grass cutting waste are collected and stored in huge pits.
- **Waste to compost** : An **organic waste composter machine of 50 kg** capacity converts the green waste and kitchen waste (Father's residence, convent and canteen) into a rich compost which is used as manure for gardening. (**Suraaj Techno Alliance Compost Machine** is a certified product under MoECC 2016 India Govt Act-2106 Swachh Bharat Abhiyan)
- Establishment of a **vermi-compost and biocompost pit** within the campus by the Science Department is an **eco-friendly initiative**. Which also produces bio-fertilizers which are **used for the organic farming and gardening purpose**. **Bioclean (Aerobic composting media)** from **Omega Ecotech Products India (Pvt Ltd.)** is used as the bio-inoculum for Bio-composting process.
- **Local farmers receive the surplus grass in campus** to improve milk production in cows, and, **in exchange, provide cow dung** for composting and as fertilizer.

Principal

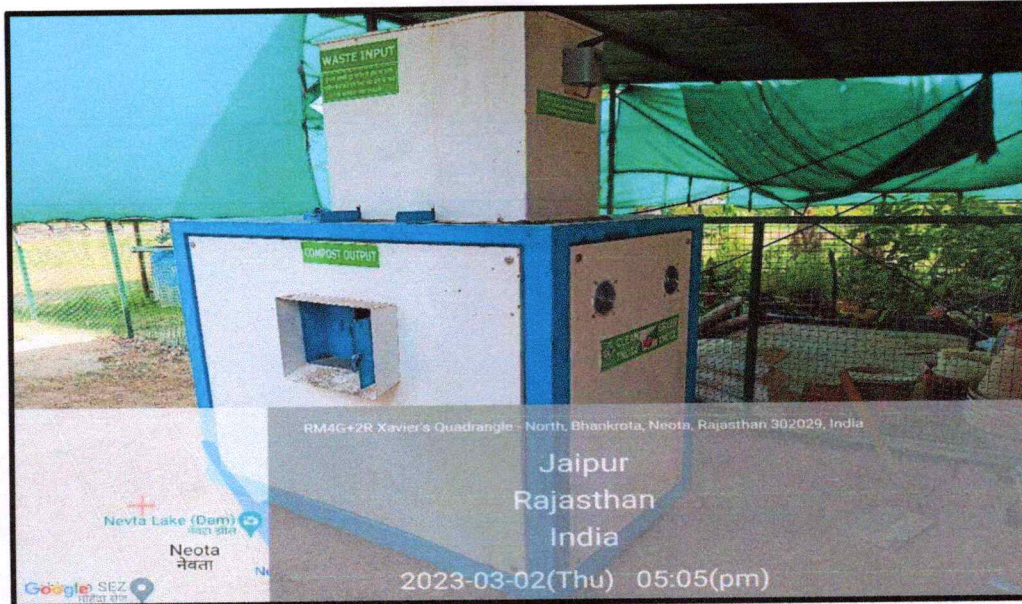
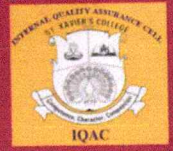
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7.1.2. BIOCOMPOSTER



Signature
Principal

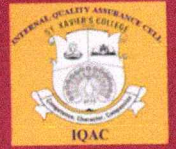
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7.1.2. VERMICOMPOSTING UNIT



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7.1.2. BIOCOMPOSTING UNIT

[Signature]
Principal

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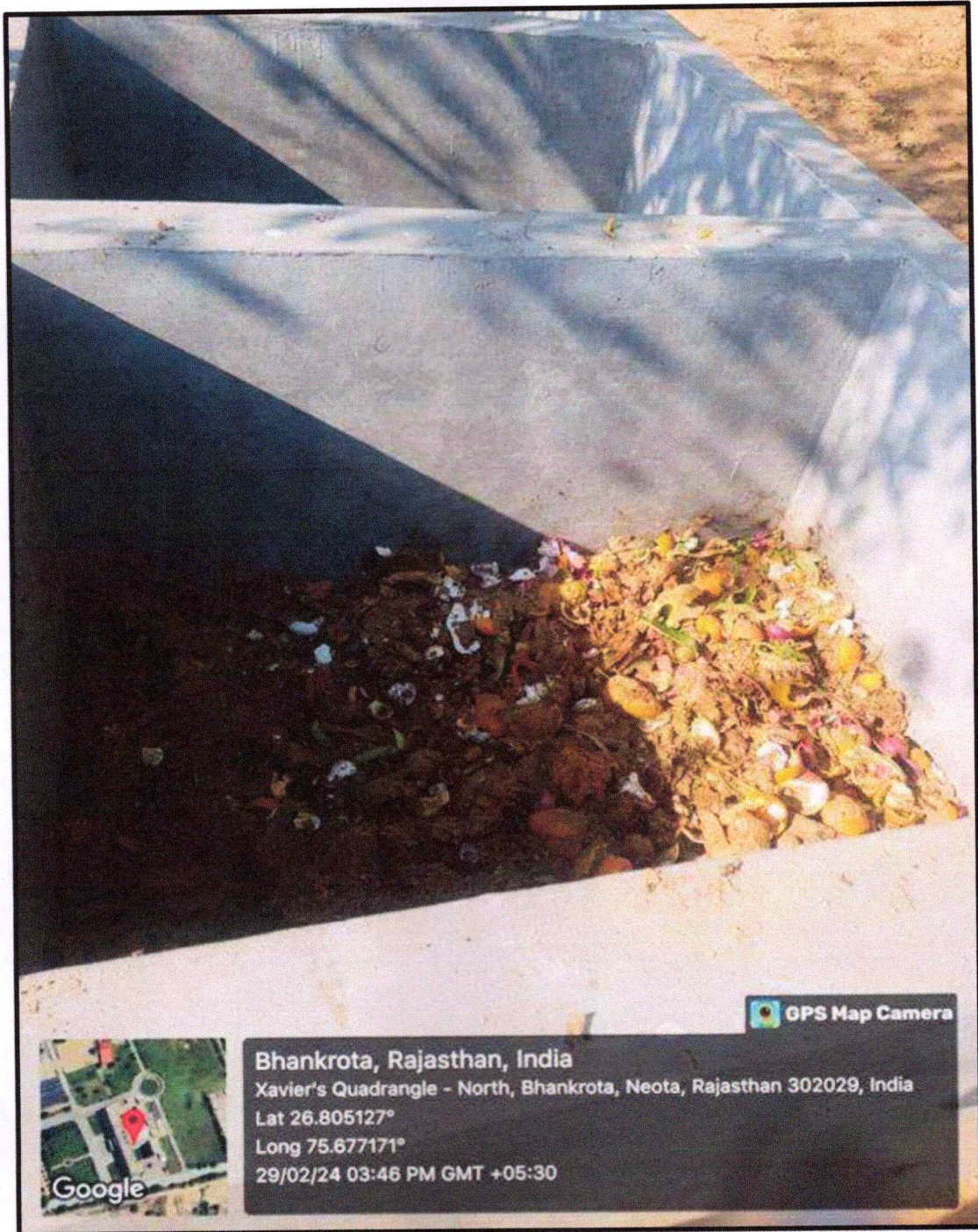
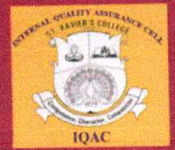
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7.1.2. BIOCOMPOSTING UNIT

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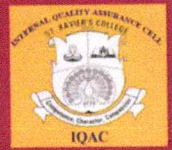
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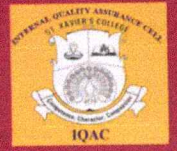
7.1.2 INCINERATOR

Jaipur
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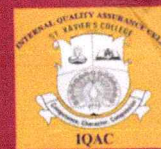
SOLID WASTE DISPOSAL (GREEN BURNER) - INCINERATION

- **Thermal disintegration of inorganic/organic content by heat transfer: Complete combustion** converts waste into inert bottom ash with minimal creation of smoke, flyash and hazardous gases without using electricity or fossil fuel. Combustion air is provided using a natural draft making electricity unnecessary.
- **Uses calorific value** present in waste **to produce heat energy which converts waste to ash** in a matter of hours. The **refractory brick lining** provides heat retention for longer duration.
- **Wet Scrubber:** The equipment comes with a standard **particle collection mechanism** which **directs the particulates in smoke** through a restricted path **into a water sealant**.
- The **water from wet scrubber unit is reused** through the three 550 L tanks. The ash containing water after multiple use is let off into the chalk pit, thus recharging the ground water.
- The **carbon ash residue** from the draft after the burning process is removed and **added to the plant soil**.


Principal

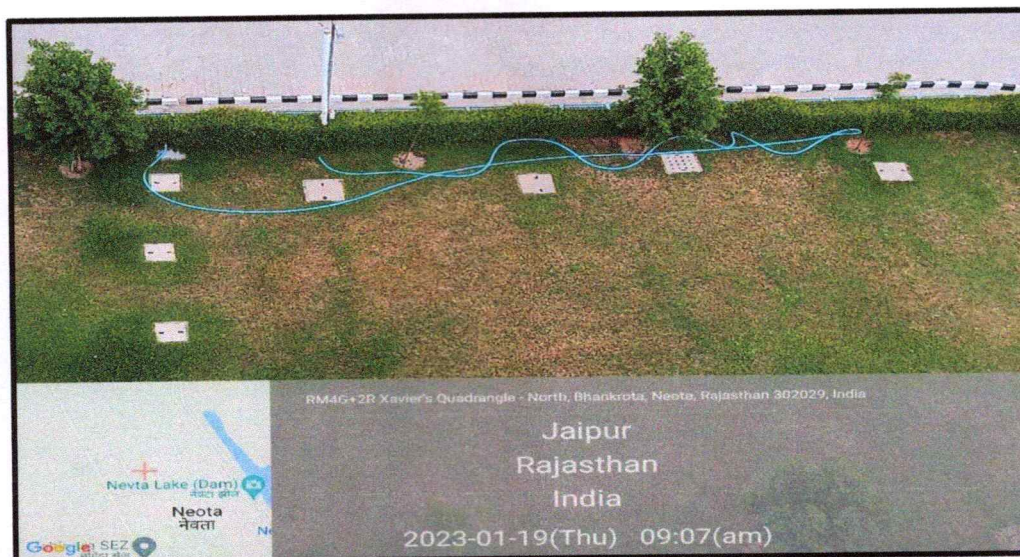
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LIQUID WASTE MANAGEMENT

- The college **organizes events and awareness campaigns to educate** the teaching and non-teaching staff, students, and villagers on **the importance of conserving water resources**.
- The **waste water filtered out by the RO processing unit is utilised for maintenance of gardens** in different parts of the campus.
- To make judicious use of water available, the college employs **water sprinklers** in garden areas.
- The chemistry department adheres to standard operating procedures for the **safe disposal of hazardous chemicals collected from chemistry laboratories** and other allied labs. Generators of corrosive wastes which have no other hazardous characteristics are neutralized to a pH between 5.5 and 9.5. The neutralized non-hazardous waste are then disposed by drain followed with a good water flush (20 parts of water).



Principal

7.1.2 SEPTIC TANKS

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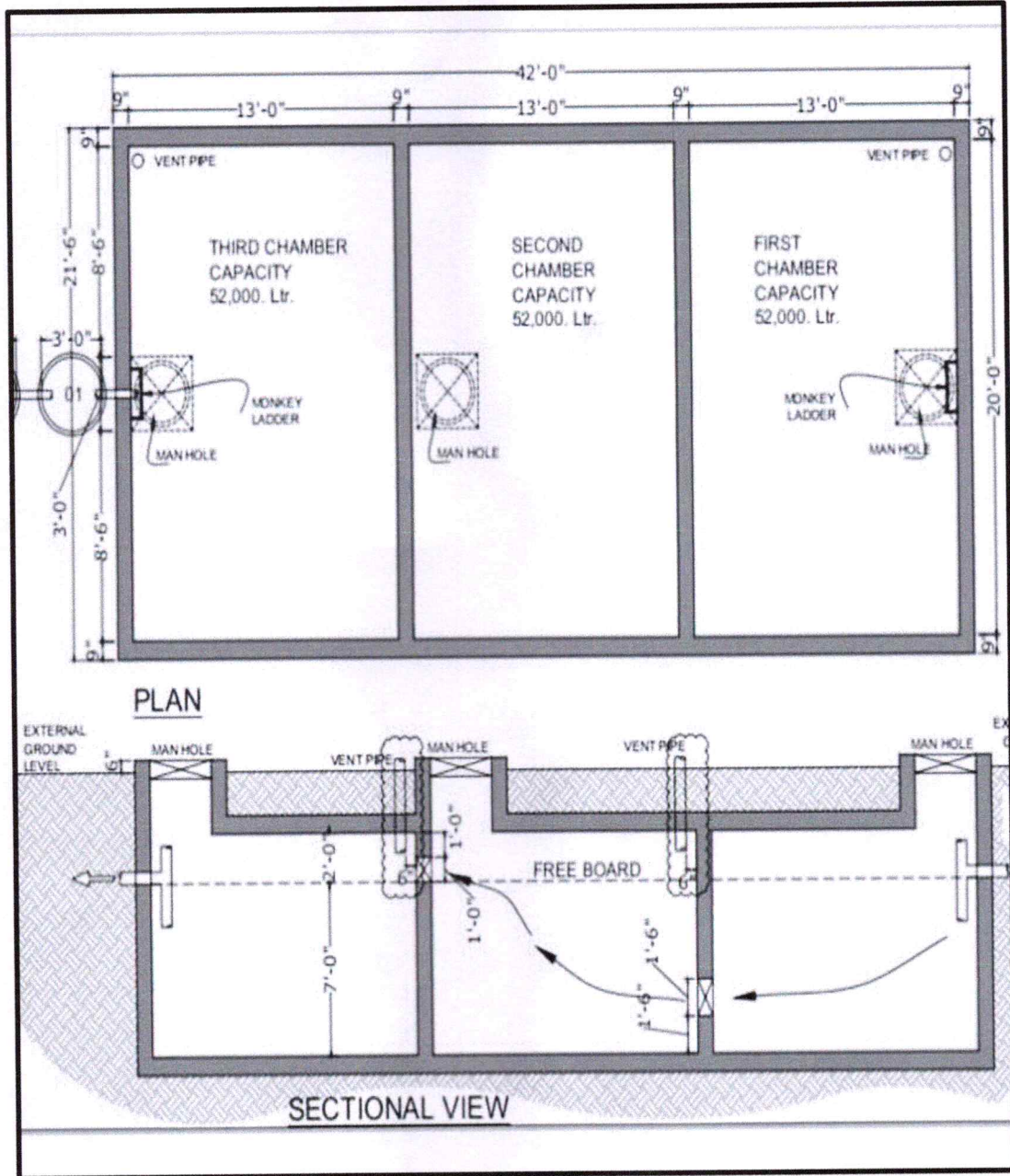


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Principa

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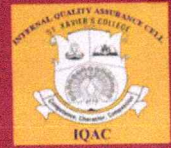


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7.1.2 MANAGEMENT OF WASTES FROM LABORATORIES

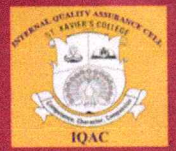

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E-WASTE MANAGEMENT

- The college has developed a practice of **disposing futile electronic gadgets** to an **authorised external agency (GPS International, an e-Waste Management Company)**
- **Categorised bins** are located on the first floor of campus **for the collection of e-waste.**
- Bins are allocated for **specific components like PCB, MB, mobiles**, and more, including metallic items such as **HDD, electric appliances, and burnt electronics.**



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