

7.1.3: Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- **Solid waste management**
- **Liquid waste management**
- **E-waste management**
- **Biomedical waste**
- **Waste recycling system**

Degradable and non-degradable waste: Solid Waste Management

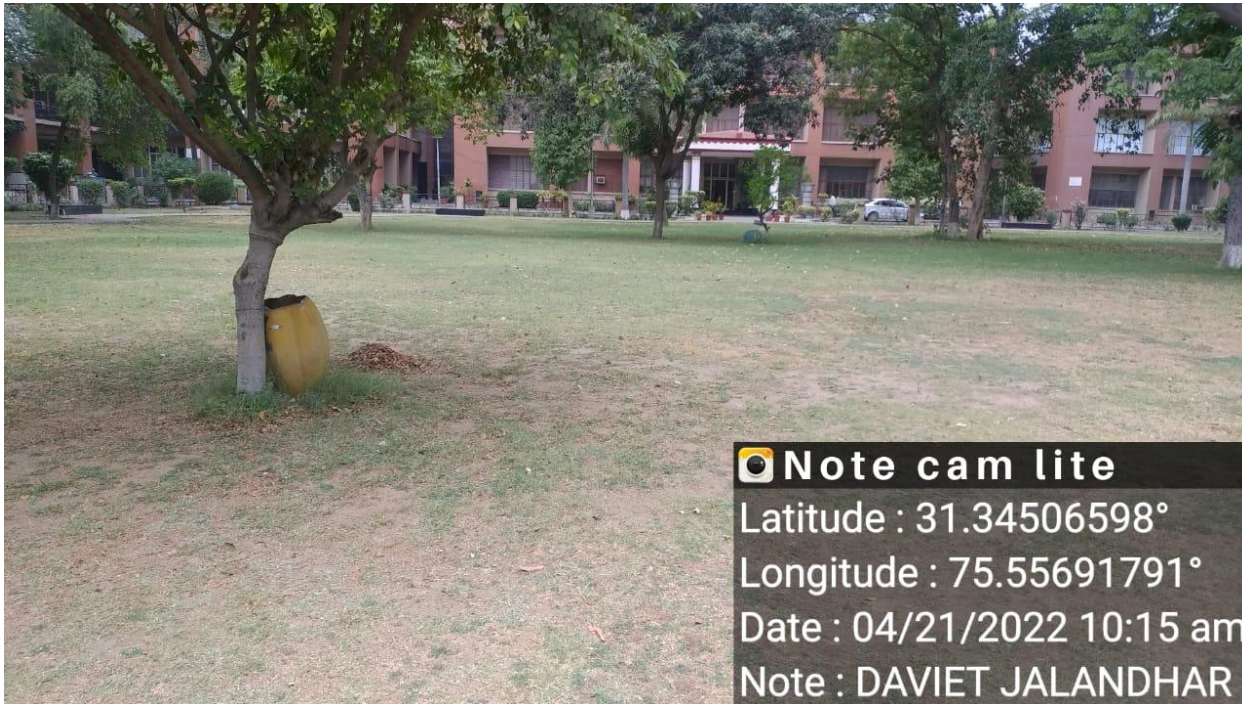
Solid Waste Management Rules notified by MoEF&CC in 2016 define solid waste as solid or semi-solid domestic waste, sanitary waste, commercial waste, institutional waste, catering and market waste and other non residential wastes, street sweepings, silt removed or collected from the surface drains, horticulture waste, agriculture and dairy waste, treated bio-medical waste.

The accumulation of wastes in different forms causes serious environmental hazards. SWM Rules, 2016 have recommendations for the decentralized the processing and treatment of solid wastes. It is stated that 'All gated communities and institutions with more than 5,00 sq.m area shall in partnership with the local body, ensure segregation of waste at source by the generators as prescribed in these rules, facilitate collection of segregated waste in separate streams, handover recyclable material to either the authorised waste pickers or the authorized recyclers. The bio-degradable waste shall be processed, treated and disposed off through composting within the premises as far as possible. The residual waste shall be given to the waste collectors or agency as directed by the local body'.

DAVIET follow the proverbial saying, 'Prevention is better than cure', meaning thereby, it is better to alleviate something hazardous or deleterious from happening than it is to deal with it before it gets cropped up and become intense. Therefore we follow the dictum of '**3Rs**'- **Reduce, Reuse and Recycle**. From the health, hygiene, environment and aesthetic point of view, the college ensures proper disposal of waste generated in the campus.

Solid Waste Management: For the collection of waste, floor wise separate bins are kept. For the recycle/reuse of used paper collected and used both sides for office purpose and official drafts. Garbage is segregated into wet and dry bins. Canteen and Hostels wet garbage is disposed of in the composting plant prepared specially for this purpose in the institute.

1. Collection: Mixed waste from institutional area, residential area, hostels (3 No.) and open area is daily collected in manually driven rehris and taken to Safai Kendra located within DAVIET campus.





2. Segregation of Waste: Approximately 20 to 25 kg of waste arrives daily at Safai Kendra backside Principals residence and adjoining servant/staff quarters.

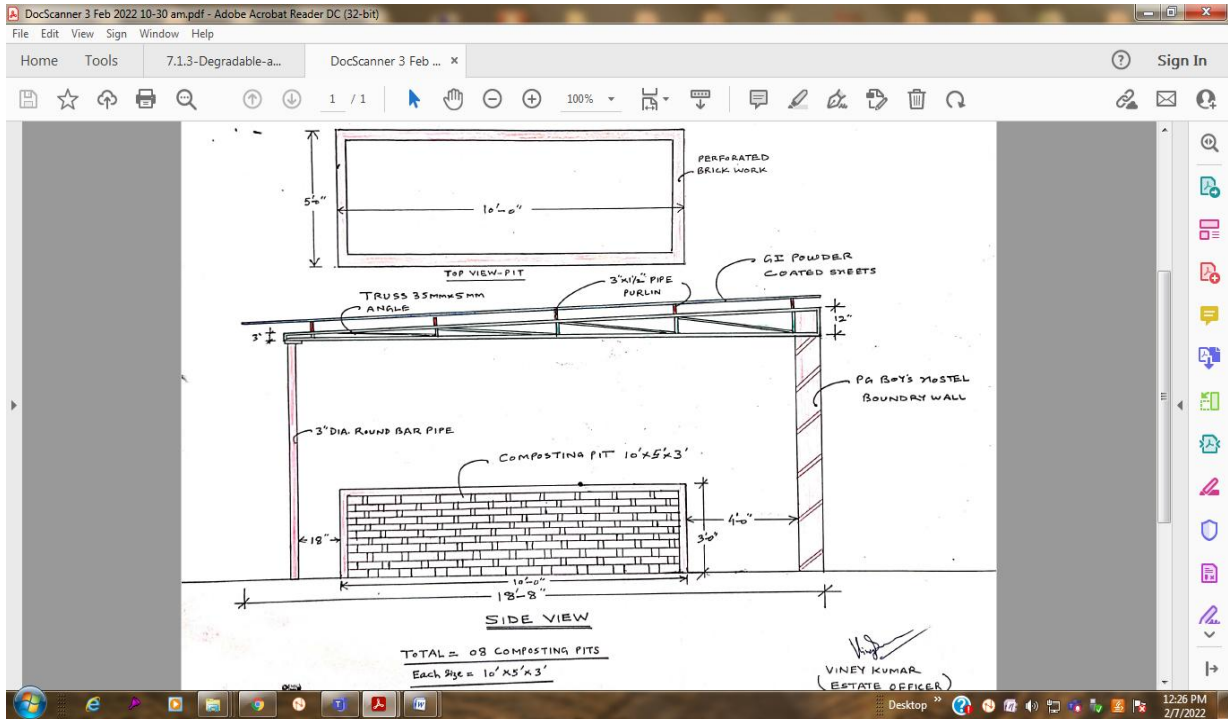
The waste is manually segregated into biodegradable and nonbiodegradable waste. The biodegradable fraction is about 50% of the waste reaching Safai Kendra.





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Degradable and non-degradable waste: Liquid waste management

Liquid Waste Management: Regular maintenance is kept of taps, drainage and water pipelines. As the institute is located in the Jalandhar city limits, the liquid drainage system (sewerage system) of the Jalandhar Municipal Cooperation is used for the institute's liquid waste disposal purpose. Institute pays the required fee regularly to the MC, Jalandhar

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ਪਾਣੀ ਦੇ ਸ਼ੀਮੈਂਟ ਹਨ ਇਸ ਨੂੰ ਜਾਂਚਿਆ ਨਾ ਕਰੋ।

MUNICIPAL CORPORATION, JALANDHAR.						WATER & SEWERAGE BILL						
Account Number						Name & Address			Bill No.	Tariff Type	Period	ਸੂਚਨਾ ਸਰਕਾਰ ਦੀਆਂ ਹਦਾਇਤਾਂ ਮੁਤਾਬਿਕ ਇੱਕ ਕਨਾਲ ਅਤੇ ਇੱਕ ਕਨਾਲ ਤੋਂ ਉੱਚ (ਰਿਹਾਇਸ਼ੀ) ਅਤੇ ਕਮਰਸ਼ੀਅਲ/ਇੰਡਸਟਰੀਅਲ/ਇਸਟੀਟੂਸ਼ਨਲ/ਅਦਾਰਿਆਂ/ਓ.ਆਈ.ਐੱਸ ਯੂਨਿਟਾਂ ਨੂੰ ਮੀਟਰ ਲਗਾਉਣਾ ਲਾਜ਼ਮੀ ਕੀਤਾ ਗਿਆ ਹੈ। ਇਸ ਕੇਂਦਰੀ ਇੱਕ ਆਉਟ ਵਾਲੋ ਖਪਤਕਾਰਾਂ ਨੂੰ ਪਾਣੀ ਦੇ ਮੀਟਰ ਨਗਰ ਨਿਗਮ ਪਾਸੋਂ ਟੈਕਟ ਖਰਾਬ ਉਪਰੰਤ ਅਪਣੇ ਖਰਚੇ ਤੋਂ ਲਗਾਉਣ ਦੀ ਹਦਾਇਤ ਕੀਤੀ ਜਾਂਦੀ ਹੈ। ਮੀਟਰ ਨਾ ਲਗਾਉਣ ਦੀ ਸੂਚਰ ਵਿੱਚ ਪਿਛਲੇ 3 ਮਹੀਨਿਆਂ ਦੇ ਪਾਣੀ/ਮੀਟਰਿੰਗ ਇੰਚ ਦੀ ਔਰਤ ਇੰਚ ਨੂੰ ਗੁਣਾ ਕਰਕੇ ਖਰਚਾ ਕੀਤਾ ਜਾਂਦਾ ਹੈ। ਮੀਟਰ ਲਗਾਉਣ ਦੀ ਪੁਸ਼ਟਿਕਾ ਲਈ ਨ ਨਿਗਮ ਨਾਲ ਸੰਪਰਕ ਕੀਤਾ ਜਾਵੇ।
MCOIS.1.OJS.1727						PRINCIPAL D.A.V INST.OF ENG. & TECHNOLOGY KABIR NAGAR Mobile: 9478101102			6675557	C	6	
ID No.									Verified for Rs. 93,571/- for period 31/3/21 to 30/9/21 16/9/21			
147311												
Current Date	Previous Date	Consumption Discharge P./M.	Zone	Arrears	Disconnection/Reopening fees							
30/09/2021	31/03/2021	3750 2,052		101228	W S							
Current Water Charges	Current Sewerage Charges	Total Current Amount	Amount Payable by due date	Surcharge	Amount Payable after due date	Issue Date	Due Date by Cash	Due Date by Cheque				
0	93571	93571	196499	9357	205856	03/09/2021	22/10/2021	22/10/2021				

W-ਮੀਟਰ ਚਲਦਾ ਹੈ। N-ਮੀਟਰ ਨਹੀਂ ਚਲਦਾ/ਮੀਟਰ ਖਰਾਬ/ਟੁਟਿਆ ਹੈ। S-ਮੀਟਰ ਦੀ ਸੀਲ ਟੁਟੀ ਹੈ। TARRIF : F-ਫਲੈਟ D-ਘਰੇਲੂ T-ਉਸਾਰੀ C-ਕਮਰਸ਼ੀਅਲ, ਭੁਲ ਚੁਕ ਲੈਣੀ ਦੇਣ

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ਪਾਣੀ ਦੇ ਸ਼ੀਮੈਂਟ ਹਨ ਇਸ ਨੂੰ ਜਾਂਚਿਆ ਨਾ ਕਰੋ।

MUNICIPAL CORPORATION, JALANDHAR.						WATER & SEWERAGE BILL						
Account Number						Name & Address			Bill No.	Tariff Type	Period	ਸੂਚਨਾ ਸਰਕਾਰ ਦੀਆਂ ਹਦਾਇਤਾਂ ਮੁਤਾਬਿਕ ਇੱਕ ਕਨਾਲ ਅਤੇ ਇੱਕ ਕਨਾਲ ਤੋਂ ਉੱਚ (ਰਿਹਾਇਸ਼ੀ) ਅਤੇ ਕਮਰਸ਼ੀਅਲ/ਇੰਡਸਟਰੀਅਲ/ਇਸਟੀਟੂਸ਼ਨਲ/ਅਦਾਰਿਆਂ/ਓ.ਆਈ.ਐੱਸ ਯੂਨਿਟਾਂ ਨੂੰ ਮੀਟਰ ਲਗਾਉਣਾ ਲਾਜ਼ਮੀ ਕੀਤਾ ਗਿਆ ਹੈ। ਇਸ ਕੇਂਦਰੀ ਇੱਕ ਆਉਟ ਵਾਲੋ ਖਪਤਕਾਰਾਂ ਨੂੰ ਪਾਣੀ ਦੇ ਮੀਟਰ ਨਗਰ ਨਿਗਮ ਪਾਸੋਂ ਟੈਕਟ ਖਰਾਬ ਉਪਰੰਤ ਅਪਣੇ ਖਰਚੇ ਤੋਂ ਲਗਾਉਣ ਦੀ ਹਦਾਇਤ ਕੀਤੀ ਜਾਂਦੀ ਹੈ। ਮੀਟਰ ਨਾ ਲਗਾਉਣ ਦੀ ਸੂਚਰ ਵਿੱਚ ਪਿਛਲੇ 3 ਮਹੀਨਿਆਂ ਦੇ ਪਾਣੀ/ਮੀਟਰਿੰਗ ਇੰਚ ਦੀ ਔਰਤ ਇੰਚ ਨੂੰ ਗੁਣਾ ਕਰਕੇ ਖਰਚਾ ਕੀਤਾ ਜਾਂਦਾ ਹੈ। ਮੀਟਰ ਲਗਾਉਣ ਦੀ ਪੁਸ਼ਟਿਕਾ ਲਈ ਨ ਨਿਗਮ ਨਾਲ ਸੰਪਰਕ ਕੀਤਾ ਜਾਵੇ।
MCOIS.1.OJS.1242						PRINCIPAL D.A.V INST.OF ENG. & TECHNOLOGY KABIR NAGAR Mobile: 9478101102			6675556	C	6	
ID No.									Verified for Rs. 1,83,038/- for period 31/3/2021 to 30/9/2021 16/9/21			
105352												
Current Date	Previous Date	Consumption Discharge P./M.	Zone	Arrears	Disconnection/Reopening fees							
30/09/2021	31/03/2021	125 4,014		201342	W S							
Current Water Charges	Current Sewerage Charges	Total Current Amount	Amount Payable by due date	Surcharge	Amount Payable after due date	Issue Date	Due Date by Cash	Due Date by Cheque				
0	183038	183038	384380	18304	402684	03/09/2021	22/10/2021	22/10/2021				

W-ਮੀਟਰ ਚਲਦਾ ਹੈ। N-ਮੀਟਰ ਨਹੀਂ ਚਲਦਾ/ਮੀਟਰ ਖਰਾਬ/ਟੁਟਿਆ ਹੈ। S-ਮੀਟਰ ਦੀ ਸੀਲ ਟੁਟੀ ਹੈ। TARRIF : F-ਫਲੈਟ D-ਘਰੇਲੂ T-ਉਸਾਰੀ C-ਕਮਰਸ਼ੀਅਲ, ਭੁਲ ਚੁਕ ਲੈਣੀ ਦੇਣ

By using standard methods liquid waste is disposed safely. Micro scale technique is used in the laboratories where chemicals are used for the studies at UG, PG and Research to reduce the wastage of chemicals. Neutralization process is also used to dilute the solutions.

Degradable and non-degradable waste: E-waste management

E- Waste management: The College has taken steps for proper disposal of all kinds of electronic waste, such as batteries, cells, obsolete electronic devices, computers, monitors and printers, UPS etc. e-waste management and disposal committee members take initiatives to manage the waste in the campus. The major sources of e-wastes at our college are outdated computer monitors, printer cartridges, mouse, keyboards, etc.. These are periodically disposed back to the suppliers through buy back schemes. Refilling of the printer cartridges is done outside the college campus. We use network printer in our computer lab to reduce the number of independent printers.

E - Waste collected in central place and intimated to the Inspector of the certified agency, to collect it for proper disposal. It is disposed by the approved vendors after its collection. Students are given tips during the lectures and are sensitized regarding hazards of e-waste and its safe disposal.



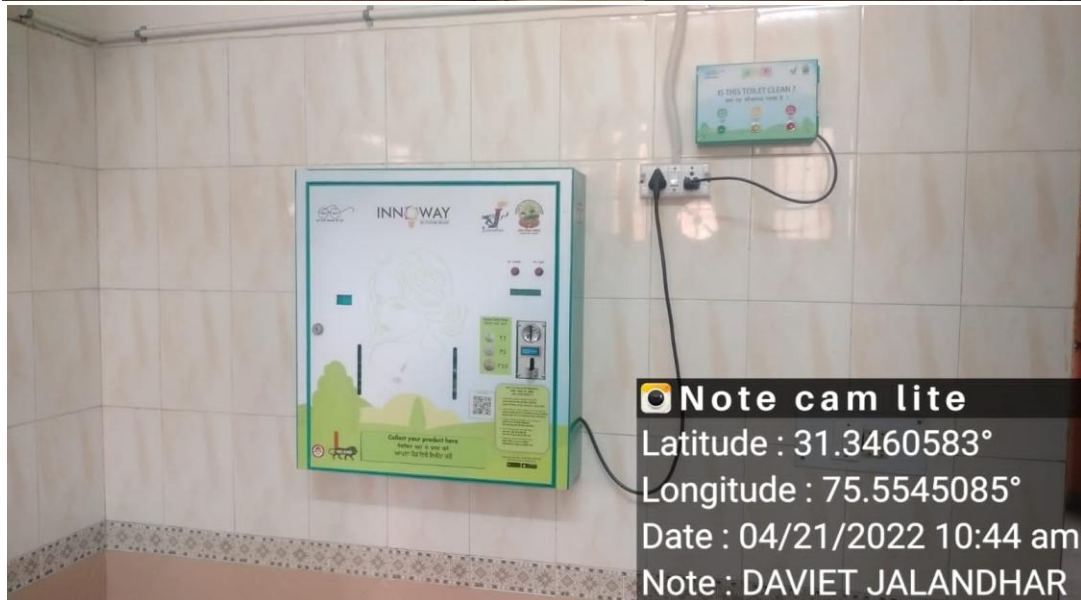
Details of E-waste vendors available in the local area

Sr. No	Name & Address of the facility	Type of Facility	Capacity	Contact Person With	Mobile No	E-mail ID	E Waste authorization	Valid up To	Remarks if any
1.	Cosmos Recycling Grewal Nagar, Street No.2, VPO Hambran Jaorwan	Dismantler and refurbisher	Dismantling of E-waste.5 TPD Refurbishing of E- waste 1	Sh. Rohit Jindal, Proprietor	8528223333	admin@cosmo recycling.com	E-Waste/LDH/SEE/ZO-2/2021-26/F-1	30-06-26	-
2.	M/s K.J. Recycler, (Recycling facility) C-38, Sanjay Gandhi Nagar, Industrial Area,	Recycler	2 TPD	Sh. Pritpal Singh Chawla (Partner)	9814060756	info@kjrecyclers.com	Vide no. 25590-92 dated 24.11.2020	20.11.2021	
3.	Stellar Recycling LLP Village Lakhawal (H.B.No.150)	Dismantler and Recycler	12 TPD	Sh. Sameer Verma (Partner)	9999670037	sameer@stellarecycling.com	E-Waste Reg/LDH/2021-26/F-1	01.03.2026	
4.	Spreco Recycling, D-45,Industrial Area,Raikot,Ludhiana	Dismantler, Recycler & Re-furbisher	Dismantling & Recycling of E-waste @ 0.8 TPD Refurbishing	Sh.Amanjot Singh,Managing Partner	8360433051	sprecorecycling@redimail.com	E-waste/LDH/SEE/ZO2/2019/F-1 dated 17.5.2019	30.06.2023	
5.	M/s Ramky Enviro Engineer Ltd., (Dismatling facility) Vill.Nimbuan, Tehsil Dera Bassi,	Dismantling	E-waste @ 1200 TPA	Sh. Sandeep Himalayan, Project Manager	9914260516	Sandeep.himalayan@ramky.com	E-waste/Dismantling Facility/SAS/2019-20/F-2 dated 23/05/2019	30.06.2021	Renewal application under process

Degradable and non-degradable waste: disposal of biomedical waste

Sanitary Napkin Vending Machine

In an initiative to promote menstrual health of adolescent girls A SMART-MANUAL Sanitary Napkin Vending Machine was installed in academic area (core block washroom) and girls hostel of the institute for the facility, girls students and hygiene of the female resident scholars under the supervision of Dr. Harpreet Bajaj and Dr. Megha Sharma.



Sanitary waste from girls' hostels (1 No.), consisting mainly of sanitary napkins, is collected as separate waste and disposed of using inclinators installed for this waste.

Incinerator (used for disposal of biomedical waste)





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Note : DAVIET JALANDHAR

Degradable and non-degradable waste: Waste recycling system

Under SMART CITY MISSION –Manual Plastic Bottles Cursing and waste recycling machine had been installed in our institute used for the proper disposal and recycling of the plastic Bottle wastes

