

**DAV INSTITUTE OF
ENGINEERING & TECHNOLOGY**
(A Unit of Dayanand Anglo Vedic College Trust & Management Society)

Kabir Nagar, Jalandhar, Punjab - 144 008

Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

CRITERION NUMBER	CRITERION NAME	MARKS
Criterion 7	Institutional Values and Best Practices	100

CRITERION-VII (INSTITUTIONAL VALUES AND BEST PRACTICES)

7.1 INSTITUTIONAL VALUES AND SOCIAL RESPONSIBILITIES (50 Marks)

**7.1.2 ENVIRONMENTAL CONSCIOUSNESS AND SUSTAINABILITY AND
DIVYANGJAN FRIENDLY INITIATIVES (20 Marks)**

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The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures

Sr. No.	Item
1.	Energy Conservation Calculations – Solar Power Plant 100kW (Proposed/implementation in progress)
2.	Energy Conservation Calculations – 500 liters Solar Water Heating System in guest house.
3.	Energy Conservation Calculations – Solar Street Lights in the campus.
4.	Use of LED street lights/Power efficient equipment's
5.	Sensor based energy conservation system
6.	Amount of Power handling by Renewable sources
7.	Related Photographs

DAVIET JALANDHAR

Energy Audit on the Campus

Long Term Plan for The Use Of Solar Energy on The Campus

Energy Audit for proposed solar power plant in the campus :

Roof Top Area available for solar power	:	50000 sq.ft.
Electrical Load Capacity of the campus	:	938.849 kW
Present average monthly electricity bill	:	Rs. 7, 75,000
Present average annual electricity bill	:	Rs. 92, 95,840
Average units consumed annually	:	77931 kWh
Proposed solar capacity to be installed	:	100 kW
Electricity units generated per month	:	12500 (1kw generates approx. 125 units)
Electricity units generated per Annum	:	1, 50,000
Current avg. electricity rate	:	Rs. 6.38 (per unit)
Electricity unit generation in 25 years	:	37, 50,000
Total revenue generated in 25 years	:	23925000
Avg. revenue per Year	:	Rs. 957000
Total Plant cost	:	Rs. 30,00000
Cost including 5% G.S.T.	:	Rs. 3150000
Payback period	:	3.29 years
Free Electricity	:	21.71 years
Savings after payback period	:	Rs. 2.07 crore

<u>Audit Results</u>	
Free Electricity	21.71 years
Savings for 25 years	Rs. 2.07 crore (after payback period)

Energy Audit for solar water heater system in the guest house of the campus:

Total No. of 35 liters Geysers installed in the guest house	:	07
Approximate No. of Hours use of each geezer in winters	:	03 Hours daily
No. of days in winter season (for 05 months)	:	150 days
Working hours of each geyser in winter season	:	450 hours
Working hours of 07 geysers in the season	:	3150 hours
Wattage of each geyser	:	2.5 KW (apprx.)
Energy consumed by 07 geysers in the season	:	7875 KWH
Approx. Rate of Energy unit	:	Rs. 6.38 per KWH
Energy cost by 07 geysers in the season	:	Rs.78750/-
Capacity of solar water heater (one unit)	:	500 liters
Cost of solar water heater	:	55,000/-
Energy saves annually	:	7875 KWH
Energy costs save annually	:	Rs. 50242/-
Payback period	:	1.09 Year

<u>Audit Result</u>	
Energy Save Annually	7875 KWH
Annual Savings	Rs. 50242/-

RETAIL INVOICE
(Original Copy)
GARYCHERT

No. 208
Date: 8/11/19
Gurmit

MANIK SOLAR INNOVATION

ADDA BASTI ROAD, NEAR RAJA HOSPITAL, JALANDHAR-144 005 (INDIA)
PHONE: +91-181-2404154, 2404465

M/s. DAVIET Institute of Education Your Order No. 2079 Dated 25/7/19
and Technology, Jalandhar
Jalandhar Transportation _____

Customer TIN No. _____ GRRR No. _____ Dated _____

S No	Full Description of Goods	Unit	Qty	Rate	Amount	P.	
1	100 Litres Solar water heater ETC based with electrical backup	Nos	01	18250	18250	00	
(As Eighteen thousand Nine hundred and fifty only)							
					Amount	18250	00
					Tax VAT@ 4%	730	00
					Total Amount	18980	00

E & O. E. For **MANIK SOLAR INNOVATION**

TERMS: Our responsibility ceases as soon as the goods are delivered to the carrier.
Please note to give this bill number when making any reference.
All disputes are subject to Jurisdiction of Jalandhar courts.
Interest @ 18% will be charged if payment is not received on presentation of bill.

[Signature]
Authorized Signatory

Retail Invoice of Purchasing and Installation of 100 Litres/day ETC based Solar Water Heater with electric backup for DAVIET (Rs. 18,950/- paid to Manik Solar Innovation, Jalandhar City, Punjab)

MANIK SOLAR INNOVATION
 ADDA BASTI ROAD, NEAR RAJA HOSPITAL, JALANDHAR-144 006 (PD.) INDIA
 PHONE: +91-181-2454454, 2404455

M/s. *DAV Institute of Engineering & Technology, Jalandhar* Your Order No. *2879* Dated *20/7/08*
 Transportation: _____
 Customer TIN No. _____ GR/RR No. _____ Dated _____

S. No.	Full Description of Goods	Unit	Qty.	Rate	Rs	Amount	P.	
1.	100 ltrs/day with electrical backup ETC based Solar water heater	Nos	02	18250	36500	-	00	
<i>As Thirty Seven thousand Nine hundred & sixty only</i>								
<i>Verified By: [Signature]</i>								
					Amount	36500	00	
					Tax VAT@ 4%	1460	00	
					Total Amount	37960	00	

[Signature]
Authorized Signatory

TERMS: Our responsibility ceases as soon as the goods are delivered to the carrier. Please note to give this bill number when making any reference. All disputes are subject to Jurisdiction of Jalandhar courts. Interest @ 18% will be charged if payment is not received on presentation of bill.

E & O. E. For **MANIK SOLAR INNOVATION**

Retail Invoice of Purchasing and Installation of 100 Litres/day ETC based Solar Water Heater with electric backup for DAVIET, Jalandhar (Rs. 37,960/- paid to Manik Solar Innovation, Jalandhar City, Punjab)

SILVERLINE INDUSTRIES

TIN NO. 0425027142

PLOT No. 150, INDUSTRIAL AREA, PHASE-II, CHANDIGARH-160 002
PHONE : 0172-5012324, 5003536

CUSTOMER

Director cum Principal D.A.V Institute of Engineering & Technology Jalandhar		BILL NO. : 1793			
		DATE : 01/09/08			
		ORDER NO. : DAVIET-2008-09 2078			
		DATE : 25/7/08			
Despatched/Delivery Through	Encl. Chalan Ref. No.	Payment Due on	Terms of Payment		
Sl. No.	PARTICULARS	Qty.	Rate	AMOUNT Rs.	P.
1	375 LPD Recold Solar Water heating flat plate collector (4 no.) with SS Tank	1		82,000 - 00	
	Sales Tax + Vat 12.5 %			10,250 - 00	
				92,250 - 00	
	Installation charges			3,750 - 00	
	Total			96,000 - 00	
				A/C 13/9/08	
RUPEES				Ninety-six thousand only.	
				E & O E	
All disputes will be settled in Chandigarh				For SILVERLINE INDUSTRIES Jalandhar Manager/Prop.	


Retail Invoice of Purchasing and Installation of 375 Litres/day recold Solar Water Heating flat plate collector (4 no. with SS Tank) for DAVIET, Jalandhar (Rs. 96,000/- paid to Silverline Industries, Chandigarh)

Energy Audit for Solar Street Lights in the Campus :

Total No. of Street Lights in the Campus	:	04
Wattage of each light	:	15 Watts
Operating Hours per day of each light	:	09 Hours daily
Energy saving by each light	:	0.135 KWH per day
Energy Consumed by 04 lights	:	0.540 KWH per day
Energy saves by 04 lights monthly	:	16.200 KWH
Energy saves by 04 lights annually	:	194.400 KWH
Avg. Unit Cost	:	Rs.6.38/- per KWH
Energy cost saving by solar light	:	Rs.1238/- Annually
Cost of one solar street light 15 W	:	Rs.10000/-(including all)
Cost of 04 solar lights	:	Rs. 40,000/-
Payback Period	:	32.3 years

<u>Result/Conclusion</u>	
Energy save per year	194.4 KWH
Savings per year	Rs.1238/-

RETAIL / VAT INVOICE



United Solar Engg. & Technologies

HEAD OFFICE:
Mukhar Road, Near Shivola Mandi, Kullu Chowk, V & P.O. Gurgaon Road
Teh. Jalandhar (N), Dist. Ferozpur (P), Pin 152022

01685-231021
0172-2210099
099993 09974
099993 09940

1126
850
org
BY

BRANCH OFFICE
Plot No. 127, Phase 9, Ind. Area, Mohal (P)

NO. 0012200828 01/11

My **DAVIET (DAV College)** Invoice No. **69** Dated: **19/8/10**

Institute of Engineering & Technology Our Quotation No. _____ Dated: _____

Parties TIN No. _____ Transport _____ Dated: _____

P.O. Ref. No. _____ Dated: _____ CARRIER No. _____ Dated: _____

Delivery Chalan No. _____ Dated: _____ No of Boxes _____ Freight _____

Payment Terms: **By Cheque**

Sr. No.	DESCRIPTION	QTY.	RATE	AMOUNT	
				Rs.	P.
1.	Installation of Solar Land Alone Security Lights	4	23,500	94,000	00
2.	LED - 192 (3v each 120mA) + 2000 MCD				
3.	Battery Make: Exide-40 AH. Tubular 12V.				
4.	Battery Box Solid Box Poly Carbonate				
5.	Pole MS 3.5" OD.				
6.	SPV. Mono Crystalline 37W, 12V.				
	Inbuilt Charging Controller With Auto Dusk to Dawn				
TOTAL				94,000	00
VAT @ 5%				4,700	00
@ 1% Surcharges				470	00
Transportation Charges				—	—
Grand Total				99,170	00

Customer's Signature _____

Rs. (in words) **NINETY NINE THOUSAND ONE HUNDRED SEVENTY ONLY**

Goods once sold cannot be taken back
Interest 24% per annum will be charged on all accounts not settled within 15 days.
All kinds of disputes shall be subject to Mohal Jurisdiction.
E & O.E.

For United Solar Engg. & Technologies
Signature _____

Retail Invoice of Purchasing and Installation of Solar lighting systems (4 no.) in DAVIET, Jalandhar (Rs. 99,170/- paid to United Solar Engg. & Technologies, Jalandhar, Ferozpur)

Use of LED Street lights /power efficient equipment:

Total No. of street lights in the campus : 36 + 24 (Mask Pole)

No. of street lights replaced with LED street lights : 28 of 65W each + 08 of 100W each

Approx. daily use of street lights : 10 hours daily

Total Annually consumption of LED Street lights $(28*65*10*30*12) + (08*100*10*30*12) = 9432\text{KWH}$

Total Annually consumption without LED Street lights : $36*400*10*30*12 = 51,840\text{ KWH}$

Annual Energy saved using LED street lights : $51840 - 9432 = 42408\text{ KWH}$

Avg. unit cost : Rs. 6.38 /- per KWH

Savings per year : Rs. 270563/-

<u>Result/Conclusion</u>	
Energy save per year	42408 KWH
Savings per year	Rs.270563/-

Sensor based energy conservation system installed in the institute

This Sensor based energy conservation system is installed in the substation of the institute by equilibrium energy which provides all electrical parameters such as Power, Energy, Voltage, Current , Frequency, Power Factor of every block and hostels. All electrical data available on line also of which any one can analyze where internet facility is available. Any abnormal condition is informed by the messages on mobiles by the company.

(Original for Buyer)

EXCISE INVOICE
FORM OF INVOICE UNDER RULE 11 OF CENTRAL EXCISE, 1955 (2002)

Ecolibrium Energy Private Limited
 504, Venus Atlantis, 100FT Ring Road, Anandnagar Road, Prahladnagar,, Ahmedabad-15.
 CIN: D40109KA2056P TC048176
 Block 340, Goochow Number 5,, Opp Innovative Mixing Plant, Near Harsha Engineers,, Changodar, Ahmedabad -382213

Invoice No: 344&ACE1600M1Z1 As Regn No: AACCE1600MEM001	Range: V Division: V Commissionable: II AHMEDABAD PIN/Post/Tx No: AACCE1650M																														
Company's Bank Details Bank Name: HDFC Bank CA No. 08902560200790 A/c No: 08902560200790	Branch: Prahladnagar IFS Code: HDFC0005890																														
Consignee DAV Institute of Engineering and Technology Kartar Nagar Punjab Jalandhar India 144008	Invoice No: INVE16-17-MAR-0178 Dated: 10-Mar-2017 Buyer's Order No: DAVIET2016-17U554 Dated: 16-Feb-2017 Delivery Note																														
Buyer (if other than consignee) DAV Institute of Engineering and Technology Kartar Nagar Punjab Jalandhar India 144008	Supplier's Ref/Order No: INVE16-17-MAR-0178 Despatched through: Dispatch Document No. Date & Time of issue of invoice: 10-Mar-2017 at 15:45 Date & Time of Removal of Goods: 10-Mar-2017 at 15:45 Mode/Terms of Payment: as per po																														
<table border="1"> <thead> <tr> <th>Sl No</th> <th>Description of Goods</th> <th>Tariff Item Class/Position</th> <th>Quantity</th> <th>Rate per</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MX Smartmeter Meter</td> <td></td> <td>3 Nos</td> <td>60,000.00</td> <td>1,80,000.00</td> </tr> <tr> <td></td> <td>Excise Duty (CST 2%)</td> <td></td> <td></td> <td>12.50 %</td> <td>22,500.00</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>6 %</td> <td>10,125.00</td> </tr> <tr> <td colspan="3">Total</td> <td>3 Nos</td> <td></td> <td>₹ 2,12,625.00</td> </tr> </tbody> </table>		Sl No	Description of Goods	Tariff Item Class/Position	Quantity	Rate per	Amount	1	MX Smartmeter Meter		3 Nos	60,000.00	1,80,000.00		Excise Duty (CST 2%)			12.50 %	22,500.00					6 %	10,125.00	Total			3 Nos		₹ 2,12,625.00
Sl No	Description of Goods	Tariff Item Class/Position	Quantity	Rate per	Amount																										
1	MX Smartmeter Meter		3 Nos	60,000.00	1,80,000.00																										
	Excise Duty (CST 2%)			12.50 %	22,500.00																										
				6 %	10,125.00																										
Total			3 Nos		₹ 2,12,625.00																										
Amount Chargeable in words: INR Two Lakh Twelve Thousand Six Hundred Twenty Five Only Amount of Duty in words: INR Twenty Two Thousand Five Hundred Only																															
Declaration: We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct for Ecolibrium Energy Private Limited																															

This is a Computer Generated Invoice

Retail Invoice of Purchasing and Installation of MFM Schneider Smart meter for the Sensor based energy conservation systems (3 no.) installed in DAVIET, Jalandhar (Rs. 2,12,625/- paid to Ecolibrium Energy Pvt. Ltd., Ahmadabad)

(Original)

Retail Invoice

Ecilibrium Energy Private Limited 4, Venus Atlantis, 100FT Ring Road, Prahladnagar Road, Prahladnagar, Ahmedabad-15. TIN: U40108KA2008PTC048178	Invoice No. INVRI-16-17-Mar-0069 Delivery Note Supplier's Ref. INVRI16-17-MAR-0069 Buyer's Order No. DAVIET/2016-17/9554 Despatch Document No. Despatched through Terms of Delivery SO1663
Consignee JAV Institute of Engineering and Technology Karbir Nagar Punjab Jalandhar India 144008 PAN/IT No Buyer (if other than consignee) DAV Institute of Engineering and Technology Karbir Nagar Punjab Jalandhar India 144008 PAN/IT No	Dated 10-Mar-2017 Mode/Terms of Payment as per po Other Reference(s) Dated 16-Feb-2017 Delivery Note Date Destination

Sl No	Description of Goods	Quantity	Rate	per	Amount
1	Schneider MFM EM6400	8 Nos	9,000.00	Nos	72,000.00
2	Digital Meter-Class 1.0-Schneider Conserve-EM6436	22 Nos	6,000.00	Nos	1,32,000.00
3	CT Current Transformer	90 Nos	400.00	Nos	36,000.00
					2,40,000.00
	GST 5%			5 %	12,000.00
Total		120 Nos			₹ 2,52,000.00

E & O/E

Amount Chargeable (in words)
 INR Two Lakh Fifty Two Thousand Only

Company's PAN : AACCE1600M

Declaration
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Customer's Seal and Signature

Sub Sanjay Kumar
Ledger no 12

(Bhalwani)

Company's Bank Details

Bank Name : HDFC Bank CA No. 0990256000790
 A/c No. : 0990256000790
 Branch & IFS Code : Prahladnagar & HDFC0000890
 for Ecilibrium Energy Private Limited

Authorized Signatory

This is a Computer Generated Invoice

Retail Invoice of Purchasing and Installation of MFM Schneider, Digital meter and CT Current Transfprmaer for the Sensor based energy conservation systems installed in DAVIET, Jalandhar (Rs. 2,52,000/- paid to Ecilibrium Energy Pvt. Ltd., Ahmadabad)

Annual Consumption of Electricity				
Sr. No.	Month	MDI	KVAH	KWH
1	Jul-18	466	107770	105280
2	Aug-18	542	148650	143500
3	Sep-18	471	118160	115160
4	Oct-18	471	84950	83480
5	Nov-18	157	49570	49430
6	Dec-18	141	48510	48450
7	Jan-19	154	52160	52070
8	Feb-19	158	44270	44160
9	Mar-19	169	46340	46210
10	Apr-19	375	76090	75210
11	May-19	417	108330	105830
12	Jun-19	464	102310	99340
		TOTAL	987110	968120

Amount of Power handling by Renewable sources:

1. Solar Power Plant of 100 KW (Proposed/implementation under process).
2. Solar street lights: $4 \times 15 = 60 \text{ W}$
3. Solar water heater system: $7 \times 2.5 \text{ KW} = 17.5 \text{ KW}$

Institute Sanctioned Load = 938 KW

Percentage of power handled by renewable sources = **12.5 %** (included Solar Power Plant of 100 KW contribution)

Sensor based energy conservation system :

The Sensor based energy conservation system is installed in the sub-station of the institute by equilibrium energy which provides all electrical parameters such as Power, Energy, Voltage, Current, Frequency, Power Factor of every block and hostels. All electrical data available on line also of which any one can analyze where internet facility is available. Any abnormal condition is informed by the messages on mobiles by the company.

To conserve the energy following actions have been taken:

1. To ensure appropriate use of AC's provided to the hostellers each AC is provided with the separate Energy meter to deduct the energy charges. With this step each student will minimize use of AC and energy will conserve accordingly.
2. Electric supply to the residences of wardens of all the hostels, Ground man residence and Driver residence is not free but charging with a planned manner that is first 125 units are free to them, above 125 units there would be charges. With this step they would use minimum electricity and energy will conserve accordingly.
3. Some of the AC's of the campus provide with digital timers so ac's not run continuously but intermediate and energy is conserve accordingly.
4. All street lights of the campus have been replaced with LED lights which consume very low power with the same lumens. Lot of energy have been conserve with this step.
5. Stickers are paste on most of the switch boards of the campus which delivers the message to switch off the appliances when not in use. This also helps to save the electricity.

Geo-tagged Photographs related to solar energy systems in the campus

1. Solar Street Lights installed in the DAVIET Campus



Solar Street Lights installed in DAVIET, Jalandhar



Solar Street Lights installed in DAVIET, Jalandhar

2. 500 ltr. Solar Heater System in the DAVIET campus



Solar Heater System in the DAVIET campus



Solar Heater System in the DAVIET campus



Solar Heater System in the DAVIET campus



Solar Heater System in the DAVIET campus

3. Sensor based energy conservation system installed in DAVIET Campus



MFM Schneider Smart meter for the Sensor based energy conservation systems (3 no.) installed in DAVIET, Jalandhar



MFM Schneider Smart meter for the Sensor based energy conservation systems (3 no.) installed in DAVIET, Jalandhar



MFM Schneider, Digital meter and CT Current Transfprmaer for the Sensor based energy conservation systems installed in DAVIET, Jalandhar




MFM Schneider, Digital meter and CT Current Transfprmaer for the Sensor based energy conservation systems installed in DAVIET, Jalandhar

The Institution has facilities and initiatives for

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

Sr. No.	Item
1.	Waste management Policy
2.	Waste management provisions for the of various types of Wastes 2.1 Solid waste management 2.2 Liquid waste management 2.3 E-waste management 2.4 Biomedical waste 2.5 Waste recycling system
3.	Related Photographs

Waste management Policy



DAVIET
ENGINEERING FUTURES
THROUGH INNOVATION
(ISO 9001:2008 CERTIFIED)

**DAV INSTITUTE OF
ENGINEERING & TECHNOLOGY**

Kabir Nagar, Jalandhar, Punjab - 144 008

Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

Ref. No. : DAVIET/2022-23/290

Dated : 18/5/2022

"Waste Management Policy"

1. Introduction

DAV Institute Of Engineering & Technology, Jalandhar (DAVIET, Jalandhar), is committed to transform lives and serve the society through pursuit of excellence in teaching, innovation, lifelong learning, cultural enrichment and outreach services. DAVIET, Jalandhar came into existence in 2001, with the objective to promote interdisciplinary higher education and research in the fields of Engineering, Management & computer application. DAVIET realizes sustainable and holistic waste management essential in reducing its environmental footprint and providing a safe and healthy work environment for teaching and non-teaching employees, students, and visitors. The institute has a duty to ensure that all the campus wastes are disposed of responsibly by using proper waste segregation mechanism at the source and if possible, converting it into value added environment friendly product. Furthermore, the medical and other hazardous waste should be disposed or managed by government approved, registered waste contractors. The purpose of the policy is to facilitate implementation of the action plan brought out in "National Environment Policy 2006" on management aspects of hazardous waste including their minimization, environmentally sound management and active promotion of transfer and use of cleaner technologies.

2. Policy Statement

The Institute will adopt the principles of the 'best practicable environmental option' in the delivery of its waste management services. The institute will apply a 'waste hierarchical approach', to reduce, reuse, recycle and recover waste products in preference to the disposal of waste to landfill. The institute recognizes the importance of meeting these

Principal 
D.A.V. Institute of Engineering & Technology
Kabir Nagar, Jalandhar-144008

Website : www.davietjal.org
Email : daviet@davietjal.org

Ph. : 0181-2207650, 2200232, 2343400
Toll Free : 1860 180 0126

legal requirements and to manage its waste responsibly, reduce the volume of waste sent to landfill and maximize reuse and recycling where possible. The University requires all the teaching and non-teaching staff, students, guests and anyone else making use of the premises to comply with this Policy and associated "Institute Environmental Guidance" to ensure compliance with all waste legislations. Any solid waste generated in the campus shall be managed and handled in accordance with the compliance criteria and the procedure laid down in Municipal Solid Wastes (Management and Handling) Rules, 1999, published under the notification of the Government of India in the Ministry of Environment and Forests number S.O. 783(E), dated, the 27th September, 1999 in the Gazette of India, Part II, Section 3, Sub-section (ii). There is a legal requirement for all who produce, keep or dispose hazardous/ radioactive waste/chemical waste of any type to comply with the various regulations under national and international environmental protection legislation.

3. Policy Objectives


The objectives of this policy are:

- ✓ To ensure that waste management is performed in accordance with all waste legislative requirements, including the duty of care, and to plan for future legislative changes and to mitigate their effects.
- ✓ To minimize waste generation at source and facilitate repair, reuse and recycling over the disposal of wastes in a cost effective manner.
- ✓ To provide clearly defined roles and responsibilities to identify and co-ordinate each activity of the waste management.
- ✓ To promote environmental awareness in order to increase and encourage waste minimization, reuse and recycling.
- ✓ To invest into the expansion of recycling opportunities on the institute campus and transform waste into value added products.
- ✓ To ensure the safe handling and storage of wastes on institute campus.

- ✓ To provide appropriate training for teacher, resident, staff, students and other stakeholders on waste management issues.
- ✓ To promote holistic approach of waste management in the campus.

4. Organization and Management

The responsibilities and organizational arrangements for this Waste Management Policy lie with a variety of personnel within the Institute.


Principal
D.A.V. Institute of Engineering & Technology
Kabir Nagar, Jalandhar-144008

▪ **Advisory Board**

- a. The Principal - Chairman
- b. Dean Academic Affairs
- c. Dean (Student Affairs)
- d. Dean (RIC)
- e. Dean (Accreditation)
- f. Medical Officer, DAVIET
- g. Two outside expert (to be nominated by Principal)

Function of Advisory Board.

- i). Coordinating the provision of a central waste and recycling contract service for use by all facilities on the campus.
- ii). Ensuring that all contractors are advised that they must comply with the Duty of Care; that they must comply with the institute's Waste Management Policy.
- iii). Ensuring that all contractors appointed to carry out works are from the government 'approved list'.


Co-ordinator, Environment Sustainability Management Cell, DAVIET, Jalandhar is responsible for:

- i). Provision of advice and guidance to the University on waste management.
- ii). Setting Environmental Performance Indicators for waste management.
- iii). Reporting annually to the advisory Board on progress against the 'Environmental Performance Indicators'.
- iv). Monitoring and auditing the management systems for all wastes, to ensure safety and legal compliance.
- v). Monitoring and auditing all waste contractors working for the institute.
- vi). Provision of appropriate training for all personnel who have responsibilities for waste management.
- vii). Coordinating the gathering of, and supplying all relevant information to appropriate enforcement agencies, when information relating to waste management is requested.
- viii). Investigation of any incidents or spillage relating to all type of hazardous and general waste management.

Support staff is

Responsible for:

- i). Overseeing the day to day delivery of general waste and their recycling services.
- ii). Monitoring the performance of the institute contractor against the contract agreements.


Principal
D.A.V. Institute of Engineering & Technology
Kabir Nagar, Jalandhar-144008

- iii). Liaising with the "Environment Sustainability Management Cell" to establish standard procedures for managing waste on the Institute campus.
- iv). Operational monitoring of waste management systems across the campus.
- v). Compiling waste transfer data and statistics notes for centrally managed waste and recycling collections.

Heads of Departments are:

Responsible for:

i). Non-hazardous Wastes

Ensuring that no hazardous waste is disposed of through the general or waste recycling streams.

ii). Hazardous Wastes;

Nominating a '*responsible person*' within their department to coordinate waste disposal for any hazardous or laboratory wastes.

- iii). Informing the **Environment Sustainability and Management Cell**, about the nominated '*responsible person*' and updating the cell if and when the '*responsible person*' changes. The tenure of the person will be minimum two year.

▪ **Staff/Supervisor (contractual) will be**

Responsible for:

- i). Disposing of waste responsibly (**at both office and residence**), through the appropriate waste disposal system (segregation of waste), in accordance with Institute policy and procedures.
- ii). Reporting any problems with waste collection schemes to **Environment Sustainability and Management Cell** of the Institute.


▪ **Students will be**

Responsible for:

- i). Disposing of waste responsibly, through the appropriate waste disposal system, in accordance with institute policy and procedures.
- ii). Reporting any problems related department/laboratory waste or waste collection Procedure to the 'Head of Department'.

5. Action Plan

The waste could be recycled /reused or disposed of in captive or common treatment, storage and disposed facilities available in the campus or incinerated, as proposed in the waste hierarchy list (Fig. 1). Inventories of 'end of life' consumer products such as e-waste are also required to be made.

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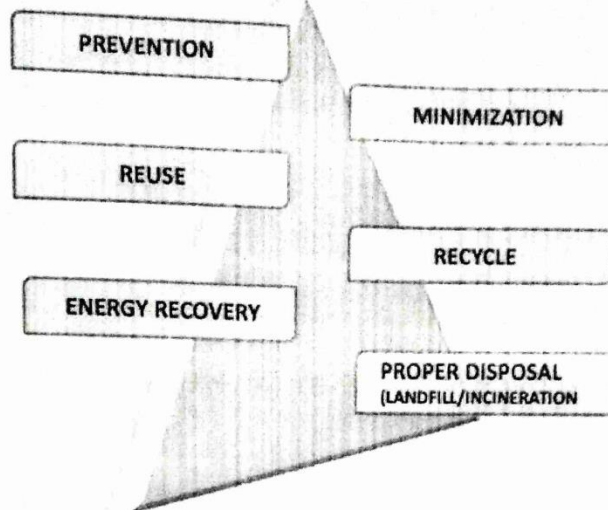


Fig. 1. Waste Hierarchy list in order of preference from the most favorable (top) to the least (bottom).

Waste avoidance and waste minimization at source


In the hierarchy of waste management, waste avoidance and waste minimization have to be attempted first, for which dissemination of information on technological options should be a continuing exercise. Promote implementation of recovery of resources such as solvents, other reagents and by-products as well as re-generation of spent catalysts in a time frame manner.

Reuse, recovery and recycling of non-hazardous waste

Institute will explore options/ opportunities of reusing, recovery and recycling of non hazardous waste in an environmentally sustainable manner. Paper waste will be recycled to make file covers paper board and packing material. The dry leaves/food waste generated in the hostels etc will be treated in the pits adjoining the PG hostel to convert them to compost .

Safe disposal of hazardous waste

For the waste which cannot be recycled/ reused, safe and environmentally sound disposal will be adopted depending upon waste category. Design and operation norms of disposal facilities should be strictly adhered to as per the guidelines framed by CPCB.


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6. Glossary

Hazardous Waste

Waste that causes substantial or potential threats to public health or the environment e.g. Acids, Pesticides, Fluorescent Tubes, Alkaline Solutions, Photographic Chemicals, Batteries Waste Oils Paint, Solvents, Computer Monitors, radioactive substances.

Recycling

The diversion of waste away from landfill or incineration and the reprocessing of those wastes either into the same product or a different one. This mainly includes non-hazardous wastes such as organic waste, wood, paper, glass, cardboard, plastic and scrap metal.

Responsible person

The person who oversees the wastes to be removed from the premises at which it was Produced or is being held.

Waste

According to United Nations Statistics Division (UNSD), waste are "materials that are not prime products (that is, products produced for the market) for which the generator has no further use in terms of his/her own purposes of production, transformation or consumption, and of which he/she wants to dispose. Wastes may be generated during the extraction of raw materials, the processing of raw materials into intermediate and final products, the consumption of final products, and other human activities. Residuals recycled or reused at the place of generation are excluded."

Incident

Events that are distinguished from accidents in terms of being less severe.

Segregation

An activity where waste or materials are separated or are kept separate according to radiological, chemical and/or physical properties to facilitate waste handling and/or processing.

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Treatment and disposal of "Biomedical Waste"

- (a) Bio-medical waste shall be treated and disposed of in accordance with Schedule I, and in compliance with the standards prescribed in Schedule V, Bio-Medical Waste (Management and Handling) Rules, 1998, MoEF, Gov. of India.
- (b) Every occupier, where required, shall set up in accordance with the time-schedule in Schedule VI, requisite bio-medical waste treatment facilities like incinerator, autoclave, microwave system for the treatment of waste, or, ensure requisite treatment of waste at a common waste treatment facility or any other waste treatment facility.

Biomedical waste

waste, which is generated during the diagnosis, treatment or immunisation of human beings or animals or in research activities pertaining thereto or in the production or testing of biologicals, and including categories mentioned in Schedule I, (Management and Handling) Rules, 1998, MoEF, Gov. of India.

Cytotoxic waste may be contaminated with a cytotoxic, pharmaceuticals, laboratory chemicals used in preparation, transportation and administration.

Chemical waste is generated from the use of chemicals in laboratories for teaching and research

Radioactive waste is contaminated with radioactive substances which arises from medical or research uses.

General waste includes paper, plastics, glass, liquids and organics.

Hazardous Waste, bulk of which is generated by the industries, can cause environmental pollution and adverse health effects if not handled and managed properly. Its effective management, with emphasis on minimization of generation and recycling/ reuse, taking into account economic aspects, is therefore essential.


Dr. Manoj Kumar
Principal
D.A.V. Institute of Engineering & Technology
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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. Therefore we follows the dictum of '**3Rs**'- **Reduce, Reuse and Recycle**. Form the health, hygiene, environment and aesthetic point of view, the college ensures proper disposal of waste generated in the campus.

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.

As the institute is located in the Jalandhar city limits, the sewerage system of MC Jalanadhar is used for the institute's liquid waste disposal purpose

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

Sanitary Napkin Vending Machines are installed in academic area (core block washroom) and girl's hostel of the institute for the facility, girls' students and hygiene of the female resident scholars under SMART-MANUAL MISSION

Under SMART CITY MISSION –Manual Plastic Bottles Crushing and waste recycling machine had been installed in the institute

Institution had the following provisions for the management of various types of waste

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

2.1 Degradable and non-degradable waste: Solid Waste Management

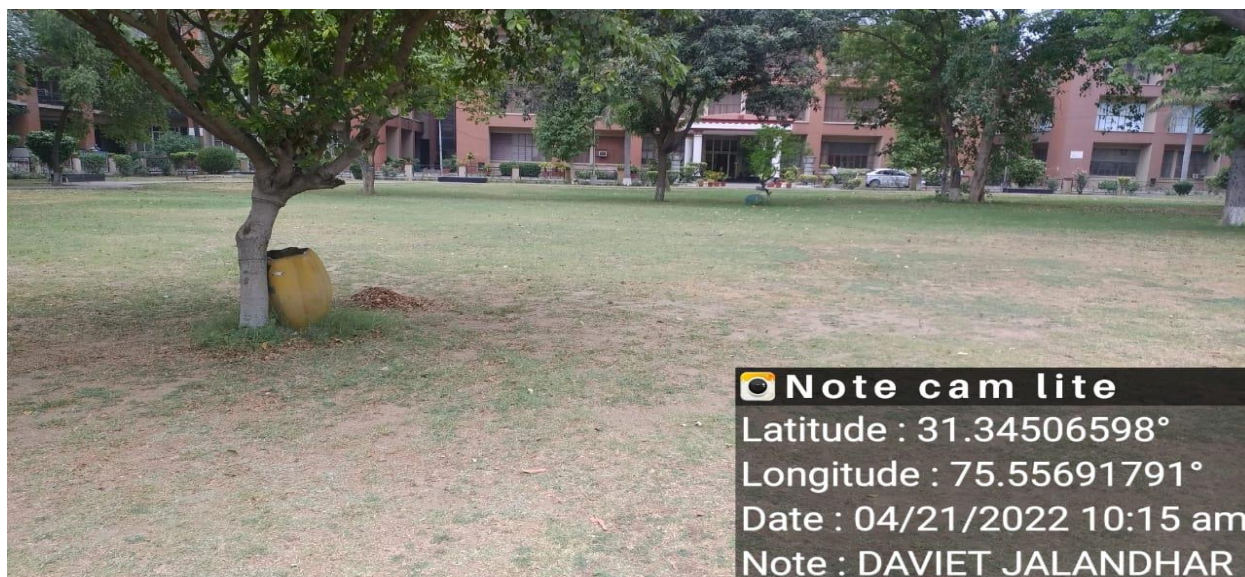
Solid Waste Management Rules notified by MoEF&CC in 2016 define solid waste as solid or semi-solid domestic waste, sanitary waste, commercial waste, institutional waste, catering and market waste and other non residential wastes, street sweepings, silt removed or collected from the surface drains, horticulture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

The bio-degradable waste is processed, treated and disposed off through composting within the premises as far as possible. The residual waste is given to the waste collectors or agency as directed by the local body’. Form 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. Segregated Garbage is collected in wet and dry bins. Canteen and Hostels garbage is also disposed of in the composting plant prepared specially for this purpose in the institute. Special agreement with external agencies for hostel’s mess waste also had been enforced.

2.1.1 Collection: Segregated 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.



Dry Garbage collection bins installed in DAVIET Campus (Front Lawn)



Dry Garbage collection bins installed in DAVIET Campus (Front Lawn)



Dry Garbage collection bins installed in DAVIET Campus (UG Hostel)



Dry Garbage collection bins installed in DAVIET Campus (PG Hostel)

2.1.2 Segregation: Approximately 10 to 15 kg of waste arrives daily at Safai Kendra 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.



Dry Garbage (Garden waste) daily collected using manually driven rehris within DAVIET Campus



Dry Garbage daily collected using manually driven rehris within DAVIET Campus

2.1.3 **Disposal:** The bio-degradable waste is processed, treated and disposed off through composting within the premises as far as possible

Action:

1. Dry leaves:

The dry leaves collected from the different sites of the institute are thrown to the underground pits, compacted, mixed with cow dung and turned upside down regularly for few months to get it converted into manure.



Dry Garbage (Garden waste) daily collected daily for the composting plant (used for the preparation of the Compost)



Dry Garbage (Garden waste) used in the composting plant for preparation of the Compost

- 2. Food Waste:** The food waste collected from the PG/UG & Girl's hostel hostels is collected on daily basis and taken to designated pits for allowing them to get converted into manure.



Wet Garbage (Kitchen waste) also used in the composting plant



Composting machines for the shredding of leaves and other dry/wet wastes



Wet Garbage used and mixed in the composting pits



Garbage mixed and watered in the composting pits for proper maturity



Team member involved in the preparation of mix for the Compost pits



Team members handling the composting plant for involved in the preparation of Compost

2.2 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 ਸੋਮੇ ਸੀਮਤ ਹਨ ਇਸ ਨੂੰ ਸਾਇਆ ਨਾ ਕਰੋ।

MUNICIPAL CORPORATION, JALANDHAR.						Visit us at : www.mcjalandhar.in			WATER & SEWERAGE BILL		
Account Number	Name & Address		Bill No.	Tariff Type	Period	ਸ਼ੁਰੂਆਤੀ ਸੂਚਨਾ ਸਰਕਾਰ ਦੀਆਂ ਹਦਾਇਤਾਂ ਮੁਤਾਬਿਕ ਇੱਕ ਕਨਾਲ ਅਤੇ ਇੱਕ ਕਨਾਲ ਤੋਂ ਪ੍ਰੀਤ (ਰਿਹਾਇਸ਼ੀ) ਅਤੇ ਕਮਰਸ਼ੀਅਲ/ਇੰਡਸਟਰੀਅਲ/ਇਸਟੇਟਮੈਨ/ਅਦਾਰਿਆਂ/ਓ.ਆਈ.ਐਸ ਯੂਨਿਟਾਂ ਨੂੰ ਮੀਟਰ ਲਗਾਉਣਾ ਲਾਜ਼ਮੀ ਕੀਤਾ ਗਿਆ ਹੈ। ਇਸ ਕੇਟਾਗਰੀ ਵਿੱਚ ਆਉਣ ਵਾਲੇ ਖਪਤਕਾਰਾਂ ਨੂੰ ਪਾਣੀ ਦੇ ਮੀਟਰ ਨਗਰ ਨਿਗਮ ਪਾਸੋਂ ਟੈਸਟ ਕਰਵਾਉਣ ਉਪਰੰਤ ਆਪਣੇ ਖਰਚੇ ਤੋਂ ਲਗਾਉਣ ਦੀ ਹਦਾਇਤ ਕੀਤੀ ਜਾਂਦੀ ਹੈ। ਮੀਟਰ ਨਾ ਲਗਾਉਣ ਦੀ ਸੂਚਤ ਵਿੱਚ ਪਿਛਲੇ 3 ਮਹੀਨਿਆਂ ਦੇ ਪਾਣੀ/ਸੀਵਰਜ ਵਿੱਚ ਦੀ ਔਸਤ ਦਾ ਇੰਨ ਗੁਣਾ ਵਸੂਲ ਕੀਤਾ ਜਾਵੇਗਾ। ਮੀਟਰ ਲਗਾਉਣ ਦੀ ਪੁਸ਼ਟਿਕਾ ਲਈ ਨਗਰ ਨਿਗਮ ਨਾਲ ਸੰਪਰਕ ਕੀਤਾ ਜਾਵੇ।					
MCOES1.OIS/1242	PRINCIPAL D.A.V.INST.OF ENG.& TECHNOLOGY KABIR NAGAR Mobile: 9478101102		6750727	C	6	Disconnection/Reopening fees W S					
ID No.	105352		Zone			Arrears			All bill amount paid up to 30/9/21. Nothing is due. Verified fee Rs. 193038/-		
Current Date	Previous Date	Consumption Discharge P.M.	Zone			Arrears			Disconnection/Reopening fees W S		
31/03/2022	30/09/2021	125 4,014	Zone			Arrears			All bill amount paid up to 30/9/21. Nothing is due. Verified fee Rs. 193038/-		
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	219648	18304	237950	21/02/2022	04/04/2022	04/04/2022			

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 ਦੇਣੀ

Payment slip (March, 2022) of Sewage bill for the Liquid waste (Sewage) management

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ਪਾਣੀ ਦੇ ਸੋਮੇ ਸੀਮਤ ਹਨ ਇਸ ਨੂੰ ਸਾਇਆ ਨਾ ਕਰੋ।

MUNICIPAL CORPORATION, JALANDHAR.						Visit us at : www.mcjalandhar.in			WATER & SEWERAGE BILL		
Account Number	Name & Address		Bill No.	Tariff Type	Period	ਸ਼ੁਰੂਆਤੀ ਸੂਚਨਾ ਸਰਕਾਰ ਦੀਆਂ ਹਦਾਇਤਾਂ ਮੁਤਾਬਿਕ ਇੱਕ ਕਨਾਲ ਅਤੇ ਇੱਕ ਕਨਾਲ ਤੋਂ ਪ੍ਰੀਤ (ਰਿਹਾਇਸ਼ੀ) ਅਤੇ ਕਮਰਸ਼ੀਅਲ/ਇੰਡਸਟਰੀਅਲ/ਇਸਟੇਟਮੈਨ/ਅਦਾਰਿਆਂ/ਓ.ਆਈ.ਐਸ ਯੂਨਿਟਾਂ ਨੂੰ ਮੀਟਰ ਲਗਾਉਣਾ ਲਾਜ਼ਮੀ ਕੀਤਾ ਗਿਆ ਹੈ। ਇਸ ਕੇਟਾਗਰੀ ਵਿੱਚ ਆਉਣ ਵਾਲੇ ਖਪਤਕਾਰਾਂ ਨੂੰ ਪਾਣੀ ਦੇ ਮੀਟਰ ਨਗਰ ਨਿਗਮ ਪਾਸੋਂ ਟੈਸਟ ਕਰਵਾਉਣ ਉਪਰੰਤ ਆਪਣੇ ਖਰਚੇ ਤੋਂ ਲਗਾਉਣ ਦੀ ਹਦਾਇਤ ਕੀਤੀ ਜਾਂਦੀ ਹੈ। ਮੀਟਰ ਨਾ ਲਗਾਉਣ ਦੀ ਸੂਚਤ ਵਿੱਚ ਪਿਛਲੇ 3 ਮਹੀਨਿਆਂ ਦੇ ਪਾਣੀ/ਸੀਵਰਜ ਵਿੱਚ ਦੀ ਔਸਤ ਦਾ ਇੰਨ ਗੁਣਾ ਵਸੂਲ ਕੀਤਾ ਜਾਵੇਗਾ। ਮੀਟਰ ਲਗਾਉਣ ਦੀ ਪੁਸ਼ਟਿਕਾ ਲਈ ਨਗਰ ਨਿਗਮ ਨਾਲ ਸੰਪਰਕ ਕੀਤਾ ਜਾਵੇ।					
MCOES1.OIS/1727	PRINCIPAL D.A.V.INST.OF ENG.& TECHNOLOGY KABIR NAGAR Mobile: 9478101102		6875337	C	6	Disconnection/Reopening fees W S					
ID No.	147311		Zone			Arrears			Verified fee Rs. 93571/- for period 31/3/21 to 30/9/21		
Current Date	Previous Date	Consumption Discharge P.M.	Zone			Arrears			Disconnection/Reopening fees W S		
30/09/2021	31/03/2021	3750 2,052	Zone			Arrears			Disconnection/Reopening fees 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	196498	9357	205856	03/09/2021	21/10/2021	21/10/2021			

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 ਦੇਣੀ

Payment slip (Sept., 2021) of Sewage bill for the Liquid waste (Sewage) management

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ਪਾਣੀ ਦੇ ਸੋਮੇ ਸੀਮਤ ਹਨ ਇਸ ਨੂੰ ਸਾਇਆ ਨਾ ਕਰੋ।

MUNICIPAL CORPORATION, JALANDHAR.						Visit us at : www.mcjalandhar.in			WATER & SEWERAGE BILL		
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MCOES1.OIS/1242	PRINCIPAL D.A.V.INST.OF ENG.& TECHNOLOGY KABIR NAGAR Mobile: 9478101102		6675336	C	6	Disconnection/Reopening fees W S					
ID No.	105352		Zone			Arrears			Verified fee Rs. 1,83,038/- for period 31/3/2021 to 30/9/2021		
Current Date	Previous Date	Consumption Discharge P.M.	Zone			Arrears			Disconnection/Reopening fees W S		
30/09/2021	31/03/2021	125 4,014	Zone			Arrears			Disconnection/Reopening fees 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	21/10/2021	21/10/2021			

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 ਦੇਣੀ

Payment slip (March, 2021) of Sewage bill for the Liquid waste (Sewage) management

2.3 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.



E - Waste collected in a designated central place for the Inspection by the certified agency, for its proper disposal.

The Policy Document



DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

Kabir Nagar, Jalandhar, Punjab - 144 008

Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

Ref. No. : DAVIET/2022-23/520

Dated : 8/6/2022

DAV Institute of Engineering & Technology, Jalandhar

E-Waste Policy

As approved by competent authority, the following is the policy for Electronic Waste Disposal of our Institute:

Definition of E-Waste:

E-Waste means electrical and electronic equipment, whole or in part discarded as waste by the consumer or bulk consumer as well as rejects from manufacturing, refurbishment and repair processes.

E-Waste Management Rules, 2016 have been notified vide notification No. G.S.R. 338 (E) dated 23.03.2016 and are come into force w.e.f. 1st October 2016 and amended vide notification No. G.S.R. 261 (E) dated 22.3.2018.

Salient features of E-Waste Management Rules, 2016:

These rules are applicable to every manufacturer, producer, consumer, bulk consumer, collection centres, dealers, e-retailer, refurbishes, dismantler and recycler involved in manufacture, sale, transfer, purchase, collection, storage and processing of e-waste or electrical and electronic equipment listed in Schedule I, including their components, consumables, parts and spares which make the product operational.

BULK CONSUMER means bulk users of electrical and electronic equipment such as Central Government or State Government Departments, public sector undertakings, banks, educational institutions, multinational organisations, international agencies, partnership and public or private companies that are registered under the Factories Act, 1948 (63 of 1948) and the Companies Act, 2013 (18 of 2013) and health care facilities which have turnover of more than one crore or have more than twenty employees. **CONSUMER** means any person using electrical and electronic equipment excluding the bulk consumers.

DEALER means any individual or firm that buys or receives electrical and electronic equipment's their components or consumables or parts or spares from producers for sale.

Principal
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Kabir Nagar, Jalandhar-144008

Website : www.davletjal.org
Email : davlet@davletjal.org

Ph. : 0181-2207650, 2200232, 2343400

E-Waste Definition:

E-Waste means electrical and electronic equipment, whole or in part discarded as waste by the consumer or bulk consumer as well as rejects from manufacturing, refurbishment, and repair processes.

Institute E-Waste:

The Institute awards the contract for Electrical/Electronic goods Recycling to the emplaned vendors of Punjab Pollution board mentioned at their website i.e. <https://ppcb.punjab.gov.in/>.

- All institute departments/branches will take consideration of the disposal/obsolete /condemnation E-Waste policy of the university.

Life Span of Electronic/Electrical Items to be dispose-off:

Cat.	Nature	Items	Useful/Productive Life
1	Immediate obsolescence/ use and throw products	Printing Consumables (Ink Toners), Floppies, CDs, DVDs, Digital Audio Tapes (DAT), Linear Taps Open (LTA), UPS Batteries.	As per usage, No. residual value determined. However, proper inventories of purchase, issue and final use/disposal etc. would be maintained in order to keep an accounting system.
2	Low life/Fast obsolescence products	Mobile Phones	Two years
		Laptops, pen drives, external hard disk Drive (HDD), SSD etc.	Three years in case of Laptops, HDD, SSD etc. for replacement. One year in case of Pen Drive. Residual values determined separately.
3	Medium obsolescence/ Medium Life products	Desktops, All-in-ones, Printers, HIFDs, Scanners, Multimedia Projectors, Online UPS System etc.	Eight years in case of Desktops/All-in-ones. Five years in case of, Printers, MFDs, Scanners, Multimedia Projectors, Online UPS System etc.
4	Slow obsolescence/ Medium Life products	Fax, EPBAX, Electronics Items such as Bio Metric Machines, Cameras, TVs, DVD Players, Public Address Systems, Electronics Calorie Meter, Electronic Thaw Unit, Sterilizers etc.	Seven years
5	Software	Software Like MS Office, Oracle, MS-SQL, MS Windows, Antivirus, etc.	As per license the purchased.
6	Others	Any other Electronics/ Electrical Items	As per the license purchased/ life span claimed by the concerned manufacturer/ supplier.
Note:	The above-mentioned items can be used beyond the mentioned/specified life till such time these items continue to serve the purpose.		

The following equipment will be considered for obsolescing/disposal/condemnation:

The equipment will be covered under electronic E-Waste equipment's like TV, Air Conditioners, and Information Technology/Telecommunication Equipment like

Centralized Data Processor Mainframe, Server, Minicomputer, Personal Computer (Central Processing Unit with Input and Output Devices), Laptop, Computer, Notebook, Printer including Cartridge, Scanner, Multifunctional Printer, Printer Sharer, Copying Equipment, Electrical and Electronic Type Writer, User Terminal and System, Facsimile, Fax, EPABX, Telex, Telephone, Pay Telephone, Codeless Telephone, Cellular Telephone, Public Address System, Electronic Calorie System, Electronic Thaw Unit, Answering System, UPS Batteries, Online UPS, UPS, Stabilizers, DVD Players, CVTs, DVD, CD, Floppies, Pen-Drive, Internal & External HDD/SSD, DAT Tape, RAM, LCD & DLP Projector, Head Phones, Computer Speakers, Computer MIC, VGA Cable, HDMI Cable, C-Type Cable, Networking items like Switch, HUB, Router, Modem, LAN Card, WIFI Access Point and Other Electronics Card Like Sound, Graphics, PCI Cards etc.

Centralized E-Waste Inspection Committee of the Institute:

All obsolete/condemned material will be verified/ Inspected by the following inspection committee:

- | | |
|---|------------|
| (i) Principal | - Chairman |
| (ii) HOD(CSE) | - Member |
| (iii) HOD(ECE) | - Member |
| (iv) Assistant Professors (ECE/CSE) | - Member |
| (v) Assistant Professors (EE/CE) | - Member |
| (vi) EO | - Member |
| (vii) Sr. Assistant (General Administration) | - Member |
| (viii) Senior Assistant (IT/CSE Services/Department) or above | - Member |
| (ix) Incharge Store | - Member |

Aforesaid Inspection committee will work to inspection of equipment under consideration of obsolete/disposal/condemnation.

E-Waste Process and Important points

All departments will condemn/write-off their electronic/electrical items in following steps

- a) Each department/branch will submit the details of items as per **Annex "A"** to the IT Services Branch/department of Institute in half-yearly i.e., 31st July and 31st Dec. of every year.
- b) The General branch will compile all such requests and submit a detailed report to the E-Waste Inspection Committee within 10 working days.
- c) The Inspection committee will collect the request from the department/branches. All disposal obsoleting/ condemnation equipment and stock register will be presented and shown by all departments/branches to the inspection committee at the time of inspection. Senior Assistant (IT/CSE Services/department) will verify the working condition of all the equipment as submitted by the department/branch on the site.
- d) The committee will submit their final report on the consolidated list of disposal/ obsolete/condemnation equipment to be disposed of to worthy Principal.
- e) After the approval of competent authority Senior Assistant (IT/CSE Services/Department) and Incharge Store will perform the dispose-off process directly with the emplaned vendors of the Punjab Pollution board for the consolidated list of obsoleting/disposal/condemnation material mentioned on their website i.e. <https://ppcb.punjab.gov.in/>.
- f) All department/branches will retain this obsoleting/disposal/condemnation material at their site and will be picked by sanctioned emplaned E-waste vendor under the

supervision of Senior Assistant (IT/CSE Services/Department) as **Annex "B"**

- g) All CPU hard drive/other storage device must be cleaned by the concern employee. He/She will be solely responsible for the backup of their data before obsoleting/disposal/condemnation of the material.
- h) The concerned department will be responsible for prevents damage to obsoleting/disposal/condemnation material while awaiting disposal.
 - 1. Monitors/Screens/LED/LCD etc. should be stored in an upright position. These should be stored in a manner that prevents breakage of the screen. Computer monitor power cables should be wrapped up or properly secured before offering it for recycling.
 - 2. Toner cartridges and paper in printers should be removed from printers prior to disposal.
- i) Department must ensure that leased equipment is returned to the leasing vendor only as mentioned in the "Annex "B".
- j) Inspection committee will schedule the disposal of electronic waste from the Institute. Electronic waste disposal is performed by emplaned vendors of Punjab Pollution board. Incharge Store will maintain all records of disposal, including shipping papers and certificates of recycling where applicable.
- k) E-waste policy is derived from Punjab Pollution Board E-Waste Rules.
- l) The policy will be reviewed after 2 years, as the need.


Principal
D.A.V. Institute of Engineering & Technology
Kabir Nagar, Jalandhar-144008

E - Waste Policy

Annexure “A”

S. No.	Item Description	Date of Purchase or year of Purchase	Stock Register Page No.	Qty	Unit Price	Total Price	Purchase was Made directly or Through the emplaned vendors	Status (Working or Not working)	Signature of Concern employee

HOD/In-Charge (Concern Branch)

Verified by

CSE/IT/ECE/EE Department

Remarks (if any)

.....

.....

.....

Dealing Hand/Senior Assistant (IT services)/ Incharge Store

HOD/In-Charge

Latest submitted details (Form-3) for the submission of E-Waste generated to authorized dealing agency for the proper disposal of the e-waste

2020-21

FORM - 3

[See rules 4(9), 5(4), 6(2), 7(7), 8(5) and 9(5)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted by producer/collection centre/dismantler/recycler by 30th June following to the financial year to which that return relates].

Quantity in Metric Tonnes (MT) or Kilograms (Kg) per year


1.	Name and address of the producer/collection centre/dismantler/recycler	DAV Institute of Engg & Technology, Kabir Nagar, Jalandhar	
2.	Name of the authorized person and complete address with telephone and fax numbers and e-mail address	Dr. Manoj Kumar, Principal, DAVIE 0181-2243400-01 daviet@davietjalandhar.com Mr. Vinay Kumar, Estate officer, DAVIE	
3.	Total quantity e-waste sold/purchased/ sent for processing during the year of electrical and electronic equipment listed in the Schedule I (Attach list)	- NIL -	
	Details of the above	TYPE	QUANTITY
3(A)*	DISMANTLERS: Quantity of e-waste in MT purchased & sent to (category wise):	IT & telecomm- munication equipments	- NIL -
3(B)*	RECYCLERS: Quantity of e-waste in MT purchased/processed (category wise):		
4.	Name and full address of the destination with respect to 3 (A-B) above	M/s Jindal Trading Co. (A division) Sec-46, Gill road, Ludhiana Unique Eco rec	
5.	Type and quantity of materials segregated/recovered from e-waste of different categories as applicable to 3(A) & 3(B)	Type	Quantity (kg) 948737342
		- NA -	

Note: The applicant shall provide details of funds received (if any) from producers and its utility with an audited certificate

✓ enclose the list of recyclers to whom e-waste have been sent for recycling.

* Strike off whichever is not applicable

Place Jalandhar city
Date 23/8/2021


Signature of the authorized person
Principal
B.A.V. Institute of Engineering & Technology
Kabir Nagar, Jalandhar-144008

2.4 Degradable and non-degradable waste: disposal of biomedical waste

2.4.1 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.



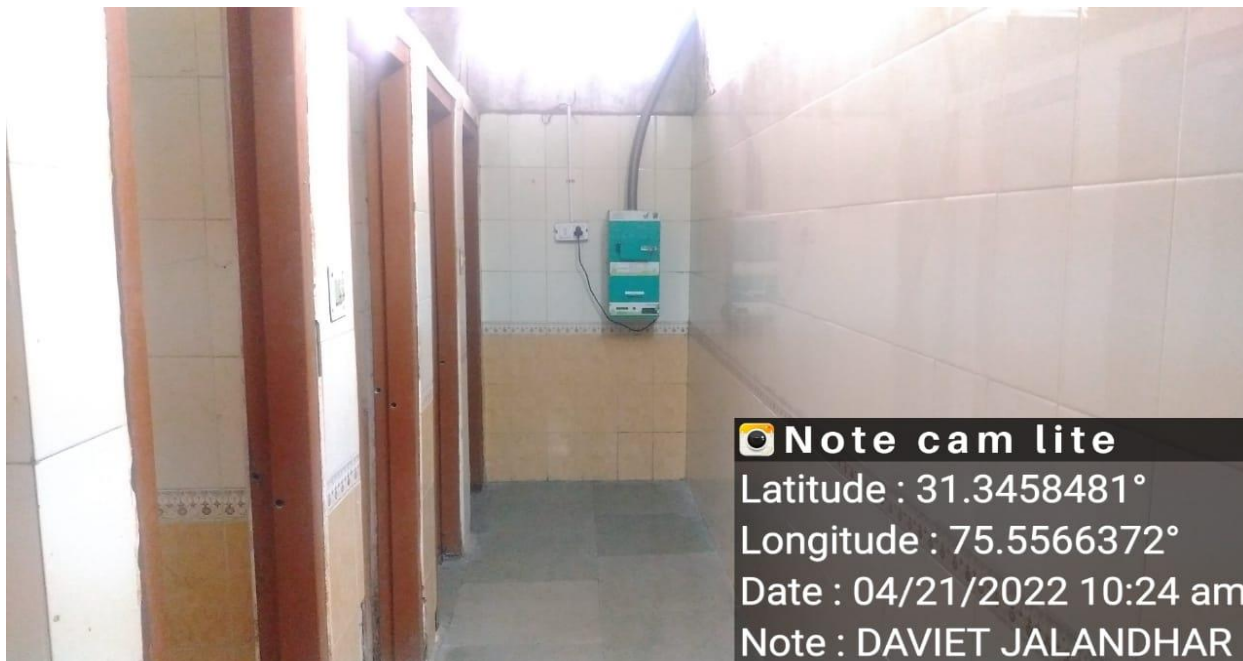
Sanitary Napkin Vending Machine installed in the academic area (core block washroom)



Sanitary Napkin Vending Machine installed in the Girl hostel washroom

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.

2.4.2 Incinerator (used for disposal of biomedical waste)



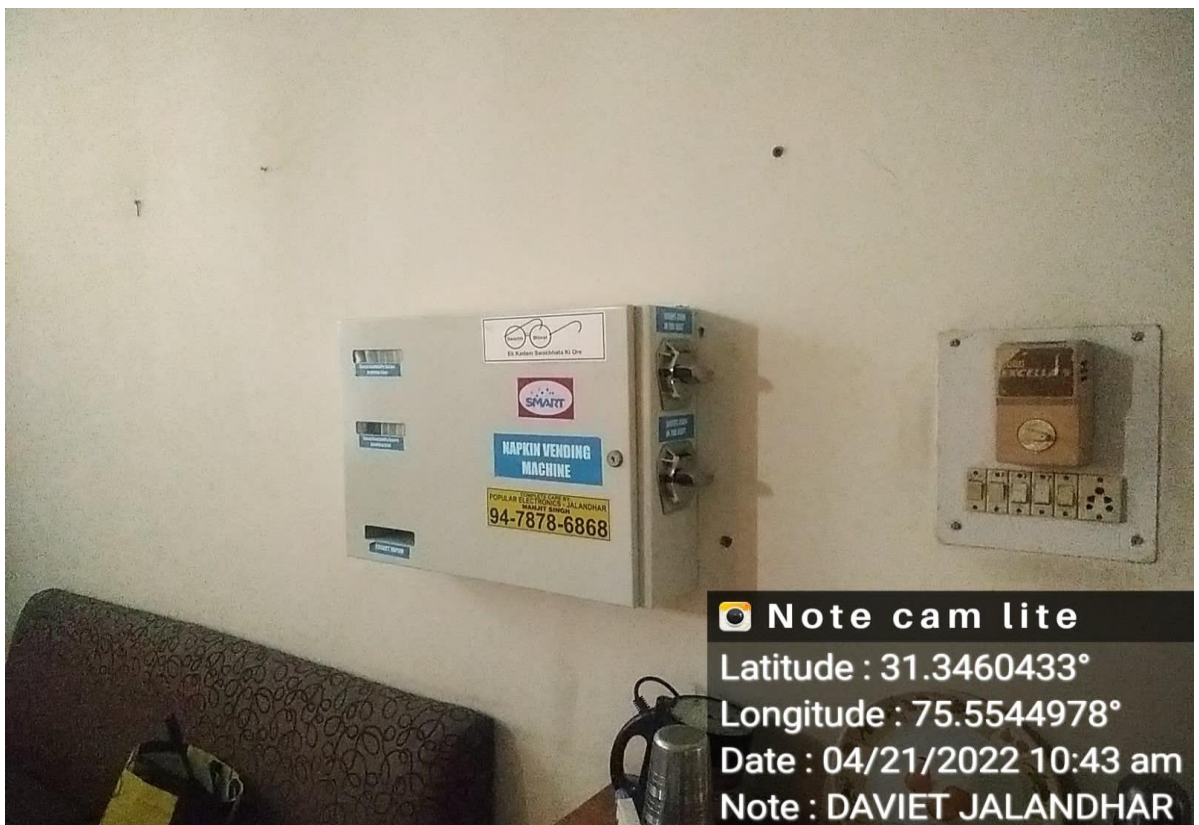
Incinerator (used for disposal of biomedical waste) in the academic area (core block washroom)



Incinerator (used for disposal of biomedical waste) in the in the Girl hostel washroom



Awareness campaign related to Sanitation and Hygiene @DAVIET, Jalandhar through Video message



Additional Sanitary Napkin Vending Machine installed in the Girl hostel common room

2.5 Degradable and non-degradable waste: Waste recycling system

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



Plastic Bottles Crushing and waste recycling machine installed in DAVIET, Jalandhar

The Institution has facilities and initiatives for

3. Water conservation and management facilities available in the Institution

Sr. No.	Item
1.	Rain water harvesting facilities
2.	Water storage, conservation and treatment facilities
3.	Maintenance of storage and distribution system in the campus
4.	Related Photographs

Water conservation facilities available in the Institution

Rainwater harvesting has been practiced for over 4,000 years throughout the world, traditionally in arid and semi-arid areas, and has provided drinking water, domestic water and water for livestock and small irrigation. Today, rainwater harvesting has gained much on significance as a modern, water-saving and simple technology.

Our institute has Rain Water Harvesting (RWH) near the Institute Guest House adjoining Material Sciences Block. Rainwater infiltration is the major aspect of the rainwater harvesting system constructed in our institute. It is also playing an important role in storm water management and in the replenishment of the groundwater levels

3.1. Rain water harvesting



Rain water harvesting system installed in the DAVIET Campus



Rain water harvesting tank installed in the DAVIET Campus

Large Open Green areas available at the front and backside (Sports complex) of the institute



Large Open Green area available at the front side for rainwater recharging within the institute



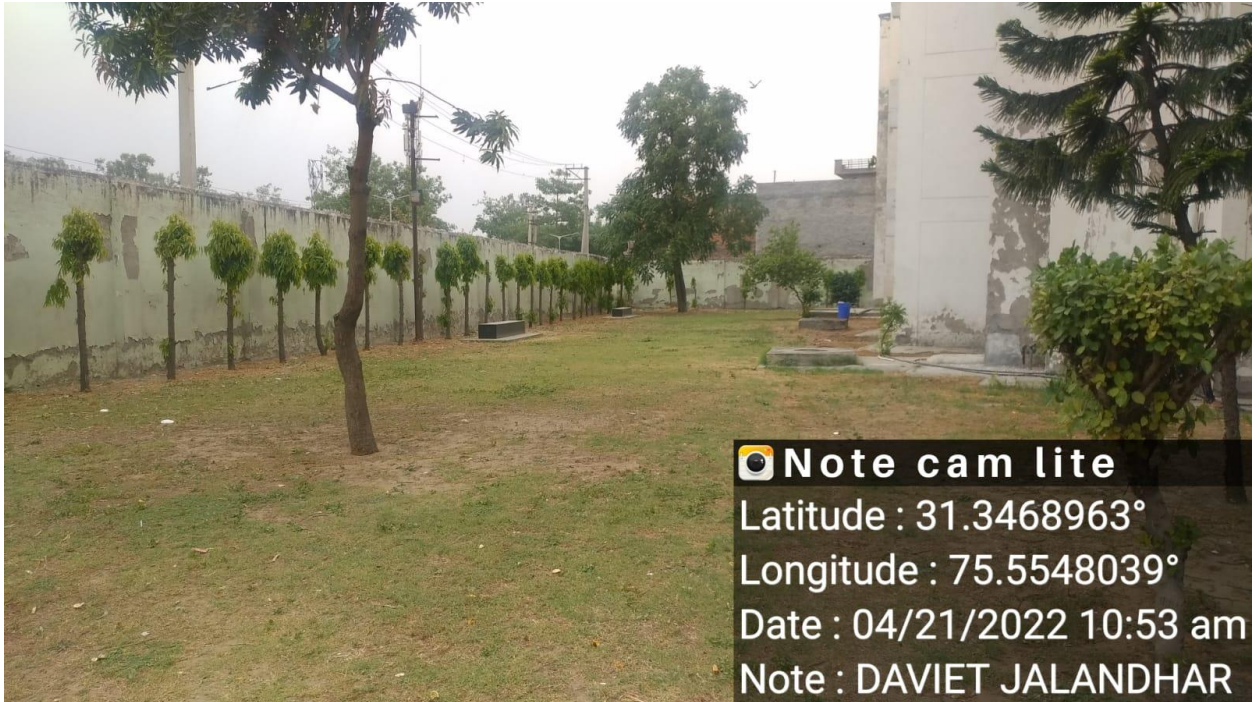
Large Open Green area available at the backside (Sports complex) for the rainwater recharging within the institute



Large Open Green area available at the backside (Sports complex) for the rainwater recharging within the institute



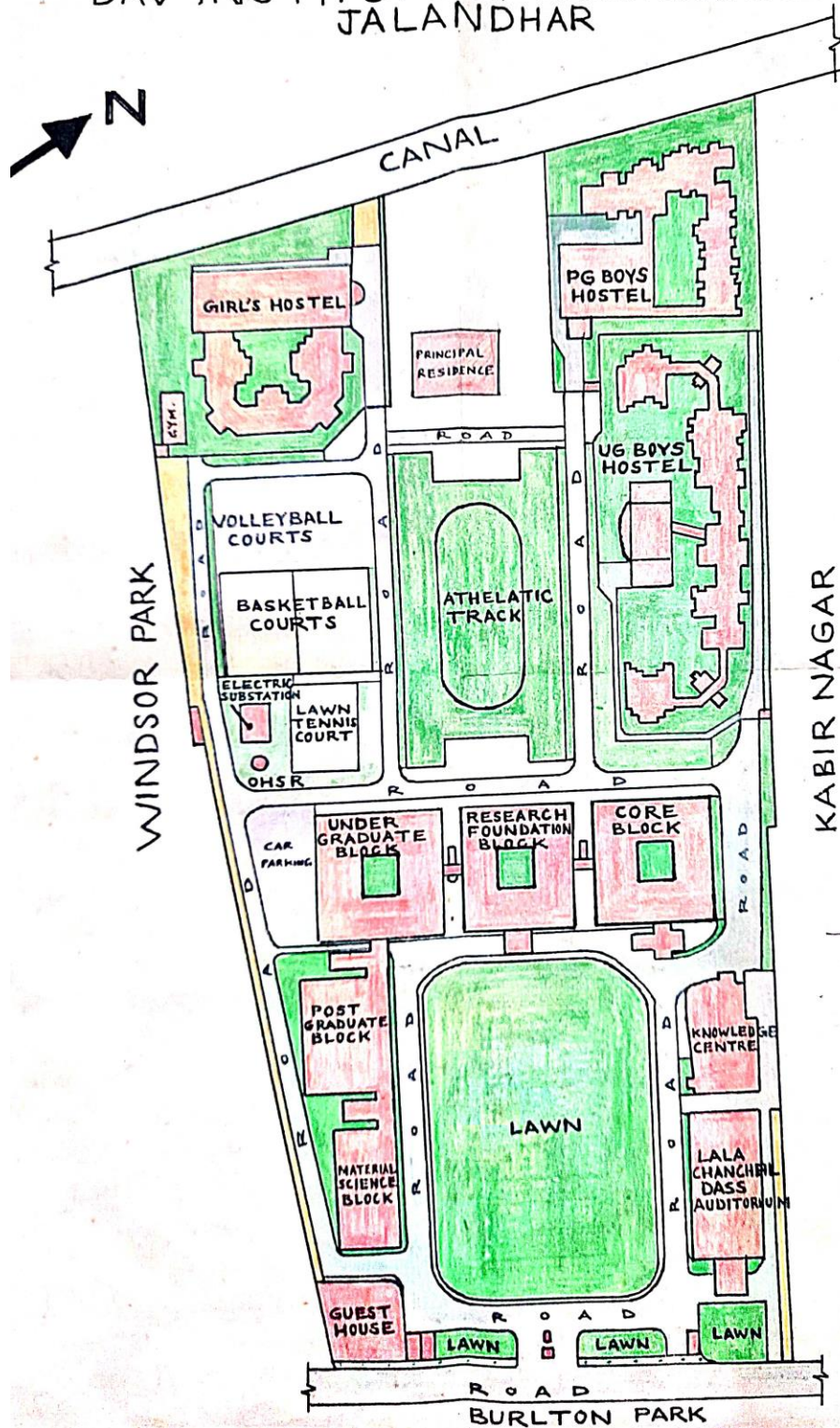
Large Open Green area available within the boys hostels for the rainwater recharging in the institute



Large Open Green area available within the girls hostel for the rainwater recharging in the institute

Related video link: - <https://www.youtube.com/watch?v=YQmV6crd-cE>

MASTER PLAN DAV INSTITUTE OF ENGINEERING & TECHNOLOGY JALANDHAR



Large open areas available within the institute (Marked as Green areas) for the rainwater recharging in the institute.

3.2 Water storage, conservation and treatment facilities available in the Institution:

The Institute guarantees that the water wastage remains minimal and the taps and pipes are under normal check for proper functioning throughout year with the up to date records being kept by the Estate Officer (EO) of the institute.



Water storage and conservation facilities available within the Institute



Water storage and conservation facilities available within the Institute



Water storage and treatment facilities available within the Institute



 Note cam lite
Latitude : 31.3459654°
Longitude : 75.5544556°
Date : 04/21/2022 10:41 am
Note : DAVIET JALANDHAR

Water storage and treatment facilities available within the Institute



Water storage and Treatment facilities available within the Institute



Water pumping and withdrawal facilities available within the Institute



Water pumping and withdrawal facilities available within the Institute

Maintenance of storage and distribution system in the campus



Ref. No. : DAVIET/ 2018. 20/ 286/

Dated : 11/07/2018

M/s Tank Kleaners,
204, Sunrise building,
37, Green Model Town,
Jalandhar City.

Sub :- Work order.

Sir,

You are requested to execute the following items in the institute at the same specifications, rates, terms and conditions vide office order no.2018-19/1887, dated 11/07/18.

S No.	Name of Items	Rate
1.	PVC Tank (2000ltrs. Capacity)	Rs 540/- per tank
2.	RCC Tank (100000ltrs. capacity)	Rs 10,500/-
3.	Water coolers	Rs 220/- per pc.
4.	KMnO ₄ Treatment	Rs 5,800/-

Terms & Conditions

- (a) GST @ 18% extra.
(b) Payment will be made on actual measurement basis.


Principal

Tank Kleaners, Green Model Town, Jalandhar services hired for the Maintenance of Storage and Distribution system within the campus

Tax Invoice

(ORIGINAL FOR RECEIPT)

Tank Kleeners 204 Sunrise Apartments 37 Green Model Town Jalandhar GSTIN/UIN: 03AAXPK2675C3ZL State Name : Punjab, Code : 03 E-Mail : tankkleeners@gmail.com Buyer DAV Institute of Engineering & Technology Kabir Nagar Jalandhar State Name : Punjab, Code : 03	Invoice No.	Dated
	437	17-Sep-2019
	Delivery Note	Mode/Terms of Payment
	Supplier's Ref.	Other Reference(s)
	Buyer's Order No.	Dated
	Despatch Document No.	Delivery Note Date
	Despatched through	Destination
	Terms of Delivery	

Sl No	Description of Services	HSN/SAC	Quantity	Rate	per	Amount
1	Cemented Water Tank Cleaning	998534	1 Tank	10,500.00	Tank	10,500.00
2	PVC Water Tank Cleaning	998534	12 Tank	540.00	Tank	6,480.00
3	Water Cooler Cleaning	998534	35 WC	220.00	WC	7,700.00
4	KMNO4 Treatment	998534				5,800.00
						30,480.00
		SGST @ 9%			9 %	2,743.20
		CGST @ 9%			9 %	2,743.20
						₹ 35,966.40

work done verified
VS

AK
AK

Amount Chargeable (in words)

INR Thirty Five Thousand Nine Hundred Sixty Six and Forty paise Only

E. & O.E

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
998534	30,480.00	9%	2,743.20	9%	2,743.20	5,486.40
Total	30,480.00		2,743.20		2,743.20	5,486.40

Tax Amount (in words) : **INR Five Thousand Four Hundred Eighty Six and Forty paise Only**

Company's PAN : AAXPK2675C

Declaration
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

for Tank Kleeners

[Signature]
 Authorised Signatory

SUBJECT TO JALANDHAR JURISDICTION

This is a Computer Generated Invoice

Tank Kleeners, Green Model Town, Jalandhar services bill (Rs. 35,966/-) paid for the Maintenance of Storage and Distribution system within the campus

The Institution has facilities and initiatives for the Green Campus

4. Green campus initiatives adopted by the Institution

Sr. No.	Item
1.	Pedestrian Friendly Pathways
2.	Landscaping with Trees and Plants
3.	Plastic waste handling policy
4.	Paper Waste recycling
5.	Restricted Entry of Automobiles in DAVIET Campus
6.	College Campus Greenery details

Green campus initiatives

4.1 Pedestrian Friendly Pathways

DAVIET campus is not a very big campus; there is no need for providing separate pedestrian pathways along the roads. However the corridors provided in the buildings are used by the students for the effective movement for one place to another.



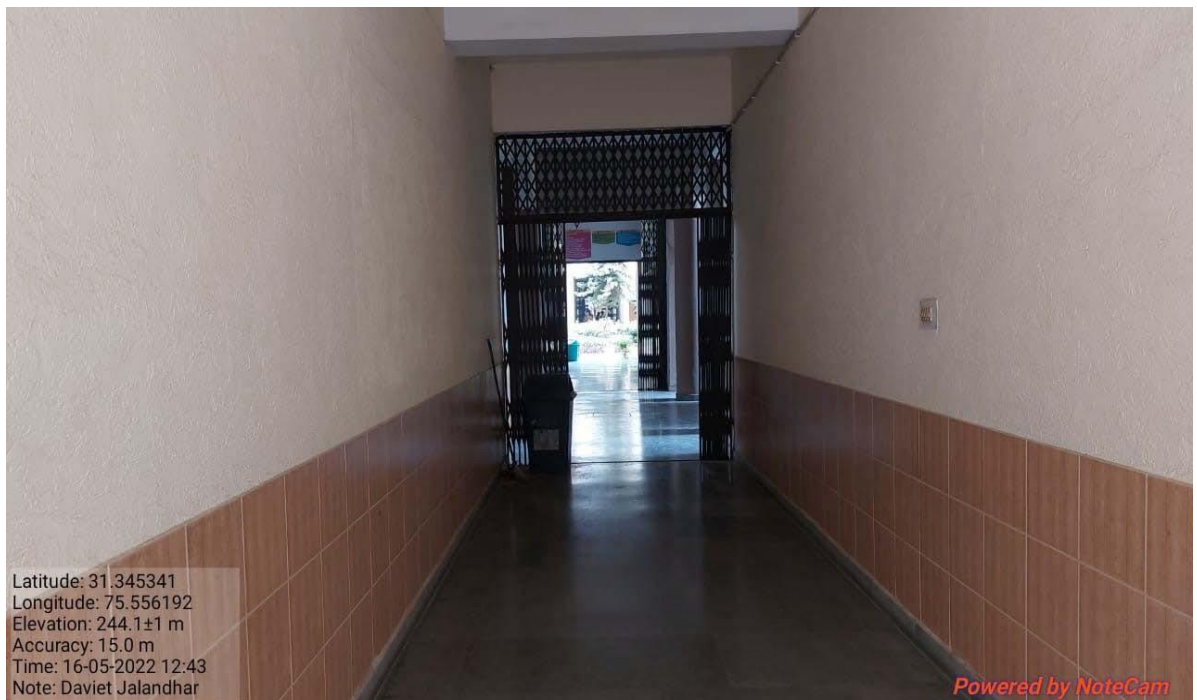
Pedestrian Friendly Pathways in DAVIET Campus



Pedestrian Friendly Pathways in DAVIET Campus



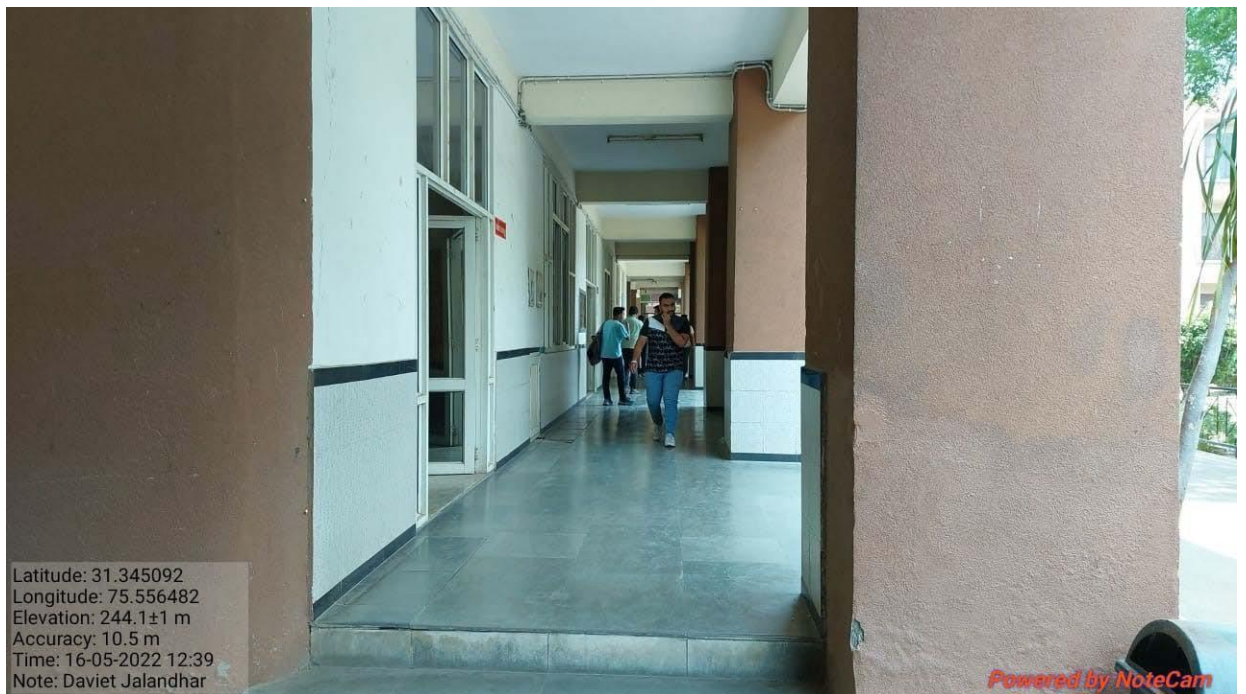
Pedestrian Friendly Pathways in DAVIET Campus



Pedestrian Friendly Pathways in DAVIET Campus



Pedestrian Friendly Pathways in DAVIET Campus

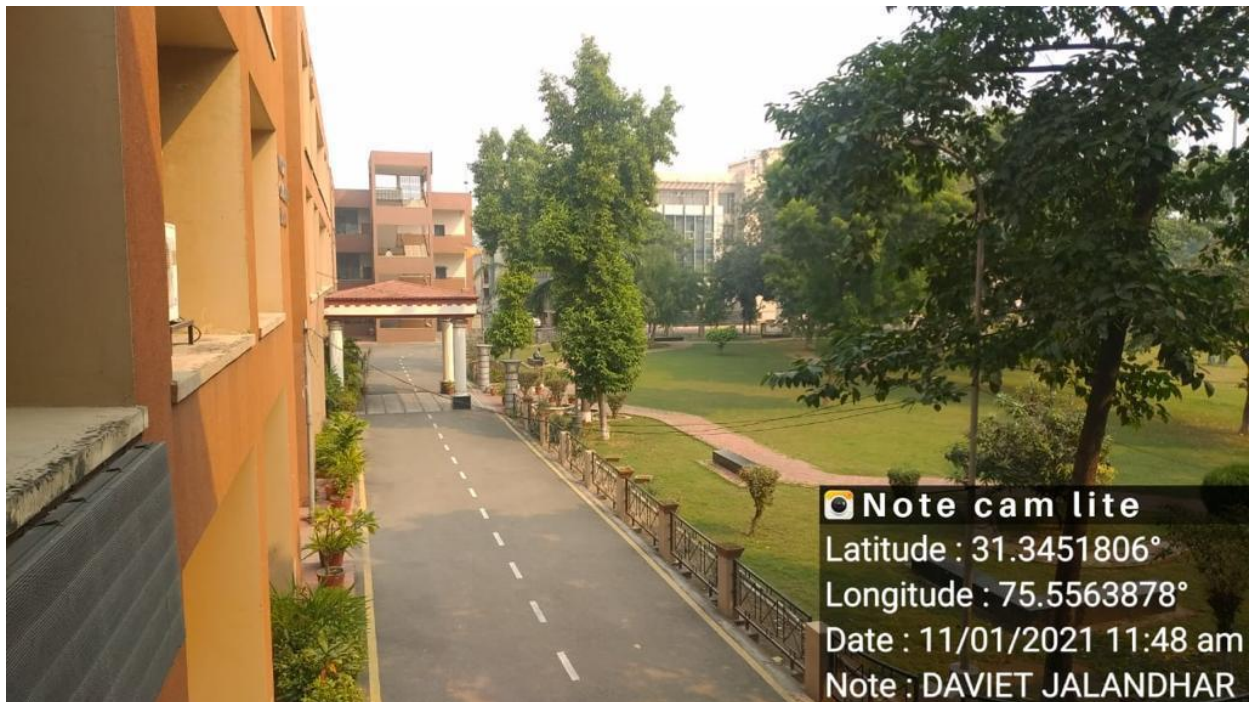


Pedestrian Friendly Pathways in DAVIET Campus



Pedestrian Friendly Pathways/Walkways in DAVIET front lawn area

4.2 Landscaping with Trees and Plants



Beautiful Landscaping with Trees and Plants (Front side)



Beautiful Landscaping with Trees and Plants (Front side)



Beautiful Landscaping with Trees and Plants (Main gate side)



Beautiful Landscaping with Trees and Plants (Main gate front side)



Beautiful Landscaping with Trees and Plants (Main gate side)



Beautiful Landscaping with Trees and Plants (Auditorium side)



Beautiful Landscaping with Trees and Plants (sports complex side)

4.3 Plastic waste handling policy

Plastic Waste Handling Policy
Objective of the policy
<ul style="list-style-type: none">• To reduce the usage of plastic inside the campus• To provide eco-friendly environment to the stake holders• To ensure proper disposal of non-reusable plastic waste
Introduction to the policy
<p>Plastics are not inherently bad, and they have many redeeming ecological features. Many of the techniques we utilize in our designs involve targeted use of plastic products. Their durability and low maintenance reduce material replacement, their light weight reduces shipping energy, their formulation into glue products allows for the creation of engineered lumber and sheet products from recycled wood, and their formulation into superior insulation improves the energy performance of our structures.</p> <p>Once plastic is discarded after its utility is over, it is known as plastic waste. It is a fact that plastic waste never degrades and remains on landscape for several years. Mostly, plastic waste is recyclable but recycled products are more harmful to the environment as this contains additives and colors. The recycling of a virgin plastic material can be done 2-3 times only, because after every recycling, the plastic material deteriorates due to thermal pressure and its life span is reduced. Hence recycling is not a safe and permanent solution for plastic waste disposal. It has been observed that disposal of plastic waste is a serious concern due to improper collection and segregation system.</p>
Harmful Effects of Plastics
<ol style="list-style-type: none">1. Plastics are made from oil with a highly polluting production process. Plastics just do not dissolve; they break down into micro-particles that circulate in the environment. A single water bottle can take up to 1000 years to break down.2. 83% of our drinking water contains plastic. Studies show that consuming plastic could lead to cancer, effects on hormone levels, and heart damage. Plastics have been found in the blood of even new born babies3. Over 600 marine species are affected by plastics. Nearly 45000 marine animals have ingested plastics and 80% were injured or killed. Plastics can pierce animals from inside or cause starvation, entanglement, loss of body parts and suffocation.4. As plastics travel with ocean currents, an island of trash called the “Great Pacific Garbage Patch” has been created. There are now many islands of trash in our seas.
Guidelines from Public Statutory and Non-Statutory Bodies/ Committees.
Swachh Bharat Mission, Ministry of housing and urban affairs, Government of India: <p>The Government of India notified Plastic Waste Management (PWM) Rules, 2016 on 18th March, 2016, superseding Plastic Waste (Management & Handling) Rules, 2011. These rules were further amended and named as ‘Plastic Waste Management (Amendment) Rules, 2018. Salient features of Plastic Waste Management (PWM) Rules, 2016 are as follows:</p> <ul style="list-style-type: none">• Carry bags made of virgin or recycled plastic, shall not be less than fifty microns in thickness.• Waste generators including institutional generators, event organizers shall not litter the plastic waste, shall segregate waste and handover to authorized agency.• Local Bodies shall encourage use of plastic waste for road construction or energy recovery or waste to oil or co-processing in cement kilns etc.• Local bodies shall be responsible for development and setting up of infrastructure for segregation, collection, storage, transportation, processing and disposal of the plastic waste either on its own or by engaging agencies or producers• Ensuring that no damage is caused to the environment during this process• Creating awareness among all stakeholders about their responsibilities and ensuring that open burning of plastic waste does not take place

Importance, and Implementation at DAVIET

Importance:


DAVIET is a green eco friendly campus with lots of trees surrounding the campus. To maintain this clean environment, reduced plastic usage and plastic management plays a vital role. This helps us to provide a healthy environment to the stake holders.

Implementation:

- Removal of plastic carry bags and use of compostable carry bags
- Replacing plastic drinking straws with paper straws
- Replacing plastic spoons with wooden spoons
- Removal and plastic tea and water cups with paper and leaf cups
- Usage of plastic water bottles by faculty members and students faculty members and students to be banned and should be insisted to use copper or stainless steel water bottles
- Replacement of flex boards with digital displays
- Degradable waste and non degradable waste to be collected in two separate bins
- Conducting awareness programs to faculty members and students of DAVIET by 5S team
- Insisting the centre for research and development team to work on waste management
- Insisting the centre for product development to give projects to the students on waste management

First Implemented on	First Revision on
11.06.2018	07.06.2022

4.3.1 Plastic waste handling policy First Revision on 07.06.2022



DAVIET
ENGINEERING FUTURES
THROUGH INNOVATION
(ISO 9001:2008 CERTIFIED)

**DAV INSTITUTE OF
ENGINEERING & TECHNOLOGY**
Kabir Nagar, Jalandhar, Punjab - 144 008

Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

Ref. No. : DAVIET/2022-23/485

Dated : 7/6/2022

POLICY DOCUMENT

"Ban on the use of Plastic in DAVIET Campus"

Plastic pollution is currently one of the biggest environmental concerns. The short-term benefits and convenience of plastic and plastic goods have led to a boom in the production and consumption of plastic. Over the past century, excess-consumption of plastic has surpassed management of plastic waste and led it to become a scourge to the planet. Plastic is a menace that impacts not the environment as well as our health and wellbeing. We have all contributed to this problem, knowingly and unknowingly and now we all must work to reduce and eliminate plastic pollution by actively contribute to the effort of banning the use of single-use plastics.

In view of the above, Institute has adopted following guidelines, policies and practices towards cleaner and plastic-free campus.

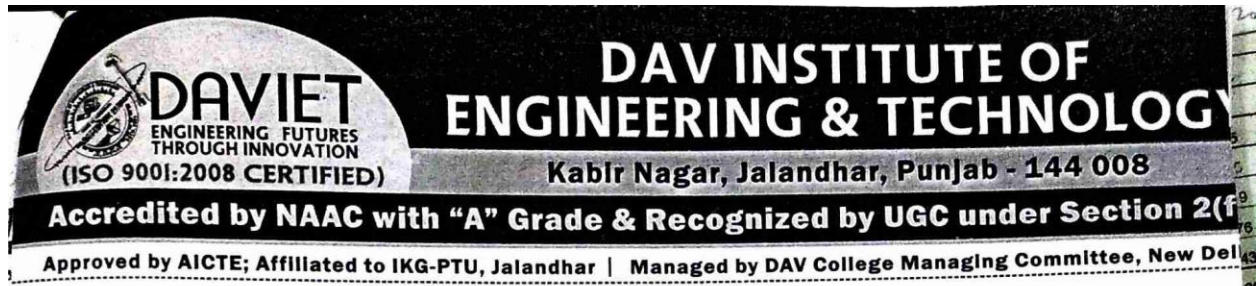
- Institute will conduct events and poster competitions etc. on designing ecological and environmentally friendly goods to minimise the use of single-use plastic on regular basis.
- Institution will carry out awareness drives and sensitizing workshops on the harmful impacts of single-use plastics.
- Institute will ensure plastic-free campuses. Students and faculty must work towards this in mission mode. Usage of plastics should be stopped in canteens, shopping complexes in the institution's premises and hostels, etc. Students may not be permitted to bring non-bio- degradable plastic items to the institution.
- Every student will be motivated to make his/her household plastic-free. Students to be incentivized to carry out similar campaigns at the community level.
- Institute will ensure Installation of necessary alternative facilities like water units to avoid the purchase and use of plastic water bottles in coming days.
- Institute will ensure the presence of alternative solutions like cloth bags etc., to plastic bottles, covers and other goods on campuses.

Principal
D.A.V. Institute of Engineering & Technology
Kabir Nagar, Jalandhar-144008

Website : www.davietjal.org
Email : daviet@davietjal.org

Ph. : 0181-2207650, 2200232, 2343400
Toll Free - 1800-180-0100

4.3.2 Office order regarding Plastic Waste Management “Swachhta Hi Seva Campaign”:



Ref. No. : DAVIET/ 2019.20/ 2848

Office Order

Dated : 10/9/19

Plastic is a necessary evil. You can hardly do away with it. The amount of plastic that is disposed off every year can circle the earth four times. Every day we come across plastic in various forms as garbage and grocery bags, food containers, computer keyboards, plastic mouse, coffee cup lids and other such products. Though plastic products are very convenient to use, they play harmful role in polluting the environment. According to a study, around eight million metric tons of plastic ends up in our oceans every year. However if prompt action is not taken, this figure will increase by ten times during the next ten years.

The chemicals which are released from the plastics into the water and atmosphere contaminate the fishes and as a result the plastic chemicals are entering food chains. Pollution caused by plastic is not only harmful for marine life but is also affecting health of humans. The harmful chemicals like PCB's, DDT and PAH, which get absorbed in the plastic debris that floats in the sea water, have a varied and harmful range of chronic effects like endocrine disorders. It has been found that an average person produces more than a kilogram of plastic waste every day. Keeping in view the ill effects of plastic.....

DAVIET has started “Swachhta Hi Seva Campaign” from September 11, 2019 to October 2, 2019. This campaign will have a “Single Use Plastic Ban” in DAVIET campus as one of the primary objective to address the environmental hazards being created by continuous use of plastics in society. The following measures are adopted for the said campaign:-

- (i) There will be a complete ban related to single use plastic products, including water bottles, take away coffee cups, lunch wrapped in disposable plastic packaging, plastic bags disposable food containers, plates and container made of polystyrene foam, plastic straws etc. w.e.f September 15, 2019.
- (ii) Every student will collect at least 1 Kg. of plastic from September 11 to October 2, 2019 and shall handover the same to the Estate Officer Sh. Vinay Kumar (in the basement of Knowledge Centre) who will liaison with the Ministry of Drinking Water & Sanitation to hand over the plastic waste for further recycling.

All the HoD(s) are requested to inspire the students towards achieving the above said goal and submit the progress report to Dr. Sanjeev Naval, Head Department of Civil Engineering by September 20, 2019.

(Dr. Manoj Kumar)
Principal

Copy to:-

1. All HoD(s)/HcD(s) – to circulate the above information amongst the faculty/staff & students of their respective departments
2. Sr. Asstts. (Admn. & A/c.s) – to circulate the above information amongst all Supporting staff of their respective section(s)
3. Establishment Section
4. Head (T&P Deptt.)
5. Chief Warden and all Hostel Warden(s)
6. Medical Officer
7. Estate Officer
8. Information Corner
9. All Departmental and Hostels' Notice Board(s)

[Handwritten signatures and dates are present over the list and in the bottom right corner. Notable signatures include 'A.G. Noster' and 'Dr. Manoj Kumar'. Dates range from 11/9/19 to 11/9/19.]

Website : www.davietjal.org
Email : daviet@davietjal.org

Ph. : 0181-2207650, 2200232, 2343400
Toll Free : 1860 180 0126

The plastic waste generated by means of plastic bottles /items are collected at designated places. The plastic bottles are crushed into small pieces in a plastic bottle crushing machine installed in the institute. The smaller pieces are sold to the processing industry for recycling.



Plastic bottle crushing machine installed in the institute (Outside Canteen)

4. 4 Paper Waste (initiative for the minimization the waste generation):



Nº 003056

U181-2200126, 2201030, 2200000
Tel/Fax : 0181-2205851, 2205852
e mail : daviet@davietjal.org

**D.A.V. INSTITUTE OF ENGINEERING & TECHNOLOGY
(DAVIET)**

KABIR NAGAR, JALANDHAR. - 144008
(ISO 9001:2008 Certified)

Approved by : All India Council for Technical Education, New Delhi & Govt. of Punjab
Affiliated to : Punjab Technical University, Jalandhar
Managed by : DAV College Managing Committee, New Delhi

Dated..... 09/11/15

Ref. No. DAVIET/ 2015-16 / 718

Office-Order

It has been observed by the undersigned that there is a lot of paper wastage in the Institute which in fact should be avoided in order to save money, reduce pollution & cutting down the beautiful life giving trees and also to save water. It is a mere fact that 10 liters of water is needed to make one piece of A4 paper. So, at least in internal documents like drafts, the waste papers printed on one side should be used for the purpose instead of throwing them away.

(Signature)
(Dr. Manoj Kumar)
Principal

(Signature)

(Signature)
10/9/15

(Signature)
Neha Rana
10/09/15

(Signature)
10/9/15

Copy to:

1. Circulation amongst all staff members

(Signature)
10/9/15

(Signature)
10/9/15

(Signature)
10/9/15

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(Signature)
10/9/15

(Signature)
10/9/15

The paper waste generated in the institute is now recycled to paper sheets using the designated machine in Hans raj Mahila MahaVidyalaya institute.

The advisory board and Environmental Sustainability Cell continuously strive towards making DAVIET, a zero waste institute

4.5 Restricted Entry of Automobiles in DAVIET Campus



DAVIET
ENGINEERING FUTURES
THROUGH INNOVATION
(ISO 9001:2008 CERTIFIED)

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

Kabir Nagar, Jalandhar, Punjab - 144 008

Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)


Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

Ref. No. : DAVIET/2022-23f236 Dated : 9/5/2022

POLICY DOCUMENT

“Restricted Entry of Automobiles in DAVIET Campus”

- DAVIET Jalandhar is housed in a lush green campus of 12 acres where use of petrol/diesel/electric powered vehicles by students is prohibited as per Institute rules.
- Visitors’ vehicles are allowed to enter the institute premises only after verification by security deployed at entry gate till designated parking points.
- Day scholars can bring two wheelers/cars only after verification by security deployed at entry gate till designated parking points.
- Two wheelers and four wheelers have different parking allocated spaces.
- The students can walk through the connecting corridors of different blocks /departments as our campus as all the academic blocks of DAVIET are interconnected.
- There is no traffic of petrol/diesel/electric powered vehicles on the roads of the institute connecting academic area with the hostels therefore they are pedestrian friendly therefore no need of additional pedestrian friendly pathways.
- Students, if they wish, can use bicycle to transit to various campus locations whereas use of battery-operated vehicles for the visitor is allowed.
- Faculty/staff and Students are encouraged to use alternative modes of transportation, such as carpooling, vanpooling, and public transportation to reach institute in order to reduce traffic congestion and air pollution
- Any public transport like auto ricksha is not allowed to run inside campus.
- Day scholars can use parking spaces up to 24 hours only in one stretch.

Principal 
D.A.V. Institute of Engineering & Technology
Kabir Nagar, Jalandhar-144008

Website : www.davietjal.org
Email : daviet@davietjal.org

Ph. : 0181-2207650, 2200232, 2343400
Toll Free : 1800 180 0100


4.6 College Campus Greenery

The college management planted many native trees inside the campus and is completely covered with matured trees grown for more than 20 years. Total number of matured trees available in the college campus is around **700+ with 30 varieties of trees.** Presently, there are more than **30 trees plant species** identified apart from **15 medicinal value plants species.** The green audit report is also discussed with environmental experts of Amritsar and Patiala districts of Punjab with suggestions to increase greenery in the campus. Extra efforts have been taken by the college to create environment consciousness amongst students.

One major step in this regard is the extensive tree plantation campaigns and environmental awareness programs organized by the members of the committee with the support of students mainly from Civil and Electrical Engineering departments.

Apart from the mature trees; preserving the ecology; the entire college campus is planted with various flowering shrubs and pushes etc. Table- 4.6.1 and Table 4.6.2 show the list of matured trees and medicinal plants available inside the college campus.

Table-4.6.1: List of Matured Tree Available in the College Campus
(Selected Matured Trees /plants only)

S. No.	Scientific Name of Plant	Image of the tree plant	Local Name	No. (s)	Gardener Name (s)
1	MAGNIFERA INDICA		MANGO	17	Surinder, Ram Bahadur, Ram partp

2	CHUKRASIA TABULARIS		CHUKRASI A	03	Surinder
3	HYOPHORBE LAGENICAULIS		BOTTLE PALM	08	Surinder, Ram Bahadur
4	MAGNOLIA CHAMPACA		CHAMPA	08	Surinder, Ram Bahadur
5	NEOLAMARCKIA CADAMBA		KADAM	04	Surinder,
6	ALSTONIA SCHOLARIS		ALOSTONI A	17	Surinder, Ram Bahadur, Ram partp

7	SYZYGIVM CUMINI		JAMUN	04	Surinder, Ram Bahadur, Ram partp, Ravinder
8	ROSA SINENSES		HIBISCUS	08	Surinder, Ram Bahadur, Ram partp
9	TABERNAEMONTANA DIVARICATA		DOUBLE CHANDNI	02	Surinder
10	AEGLE MARMELOS		BEL	01	Surinder, Ram Abhilash
11	FICUS RELIGIOSA		PEEPAL	02	Surinder, , Ram Abhilash, Ravinder

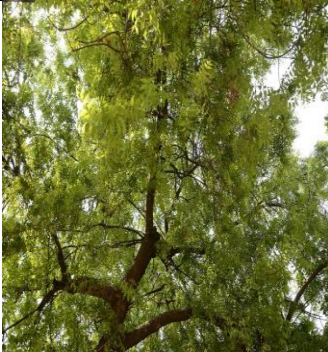















12	AZADIRACHTA INDICA		NEEM	07	Surinder, Ram Abhilash, Ravinder, Ram Bahadur, Ram partp
13	PHYLLANTHUR EMBLICA		AMLA	01	Surinder,
14	CITRUS NOBILIS		KINNOW	01	Surinder,
15	CASSIA FISTULA		GOLDEN FICUS	02	Surinder, Ram Bahadur

Table-4.6.2: List of Medicinal Plants (Shrubs / Bushes):

S.No	Scientific Name	Image of the medicinal plant	Local Nmae	Uses	No. (s)	Gardener Name (s)
1	Stevia rebaudiana		Stevia	It maintain the Blood Sugar Level, Blood Pressure Level, Obesity, Confidence Level, Acid Level in the body, act as causative agent of dental caries and tooth cavities. Also use Its dry leaves as a sugar for sweetness	100	Surinder, Ram Bahadur
2	Chamaecostus cuspidatus		Insuline	It maintains the Blood Sugar Level, Skin Complaints, Reduce fever and Treat asthma.	36	Surinder, Ram Bahadur
3	Rosmarinus officinalis		RoseMar y	Its leaves or dry leaves powder is used as Garm Masala or for taste and flavour in dishes. Its mostly used in chiness dishes	5	Surinder, Ram Bahadur
4	Justicia adhatoda		Adusa	It is very effective for treating all kind of cold related problems especially cough, for removing phlegm,skin disease and asthma	10	Surinder, Ram Bahadur
5	Citronella		Odomos	It is used for freshing the enviorments, Controling Pets, Mosquito's and All kind of Bacteria's. Its very good for skin problems	20	Surinder, Ram Bahadur
6	Elettaria cardamomum		Kali Elaichi	Its Leaves and flowers are used for the elaichi flavouring in all kind of dishes.	36	Surinder, Ram Bahadur

7	Elettaria cardamomum		Green Elaichi	Its Leaves and flowers are used for the elaichi flavouring in all kind of dishes.	36	Surinder, Ram Bahadur
8	Trachyspermum ammi		Ajwain	This plant is used in offices for environment purifying environment and make the environment bacteria free. Along this its leaves are used for stomach related problems and for fever.	20	Surinder
10	Withania somnifera		Ashwagandha	Its used to resolve all kind of allergies	20	Surinder, Ram Bahadur
11	Pimenta dioica		All Spices	This plant leaves are used on the place of Garam Masala in all dishes.	20	Surinder, Ram Bahadur
12	Bryophyllum pinnatum		Pather Chatta	Its best for the kidney stone	10	Surinder
13	Santalum album		White Snadal	Good for High blood pressur, all type skin infections, Headache etc.	02	Surinder

Different activities organized to create greenery and awareness regarding its conservation in college campus are as follows-

- Plantation of diversified species
- Uses of medicinal plants
- Identification of plants species

Plantation of diversified species:

To create green cover, eco-friendly atmosphere, pure oxygen in the college campus, plantation program were organized every year with involvement of all students, principal, and departmental faculty/staff members.

In the current academic session, tree plantation drives were organized and about 100 ornamental and medicinal plants including few rare and exotic beautiful trees were planted in the gardens and other parts of the college campus. To keep the greeneries in the campus, a team of six gardeners regularly maintains the gardens which are also looked after by the paid staff members under the guidance of Green Audit Committee members.

Uses of medicinal plants:

There are many medicinal plants are planted in college gardens. The plants have medicinal value but students don't have knowledge how to use and they can't identify the particular plants, so therefore faculty members of civil engineering department help them to identify with scientific name and give information about medicinal uses of the plants to the faculty, staff and students of the institute.

Identification of plant species:

There are so many plant species are present at college campus. The faculty member of the Civil Engineering department with the team of 10 dedicated volunteers given their services in identification of various plant species with the help of college staff members

Certificate of Appreciation from AICTE “One Student One Tree” Campaign



Certificate of Appreciation from AICTE (Sucessfully implemeting Green campus initiatives)



Tree Plantation Campaign under Green campus initiatives

5. The Institution has facilities and initiatives for the Disabled-friendly, barrier free environment adopted by the Institute campus

Sr. No.	Item
1.	Ramps/lifts for easy access to classrooms and Library building floors.
2.	Disabled-friendly washrooms
3.	Signage including display boards and signposts
4.	Provision for enquiry and information: Human assistance
5.	Policy document for the differently-abled students
6.	DAVIET Disability Resource Centre
7.	Other special provisions for Disabled students – Related to Examination

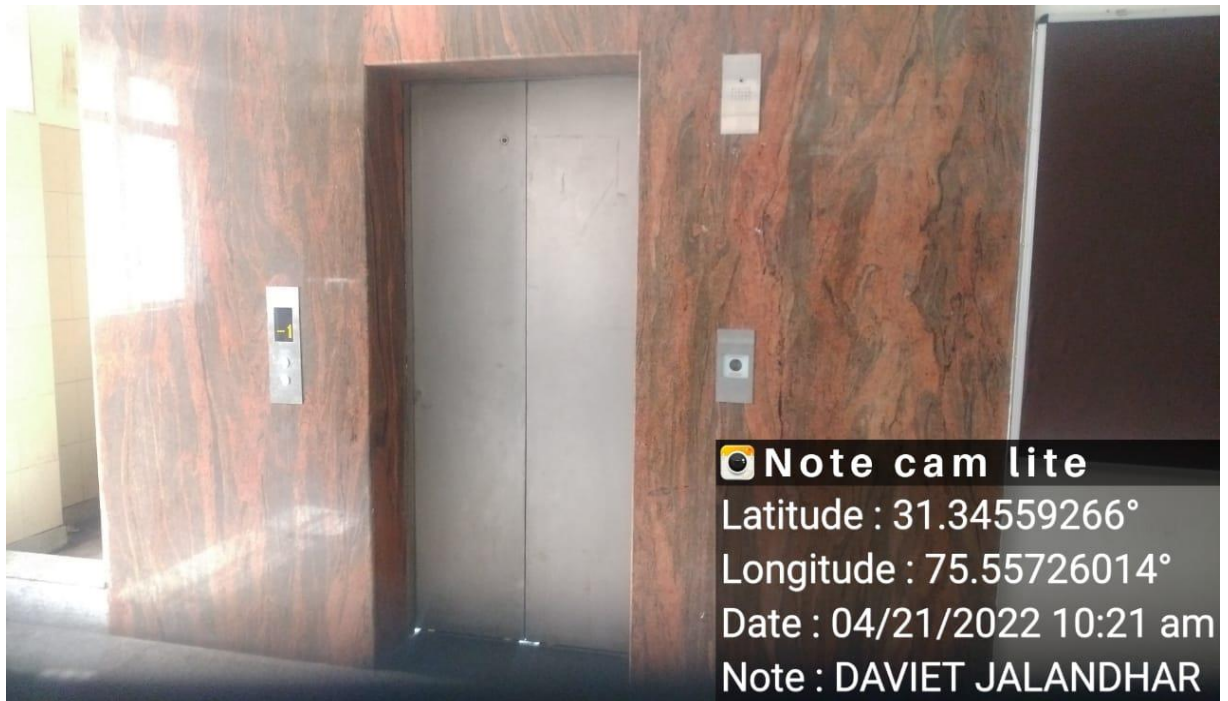
5. Disabled-friendly, barrier free environment

The Institution has disabled-friendly, barrier free environment

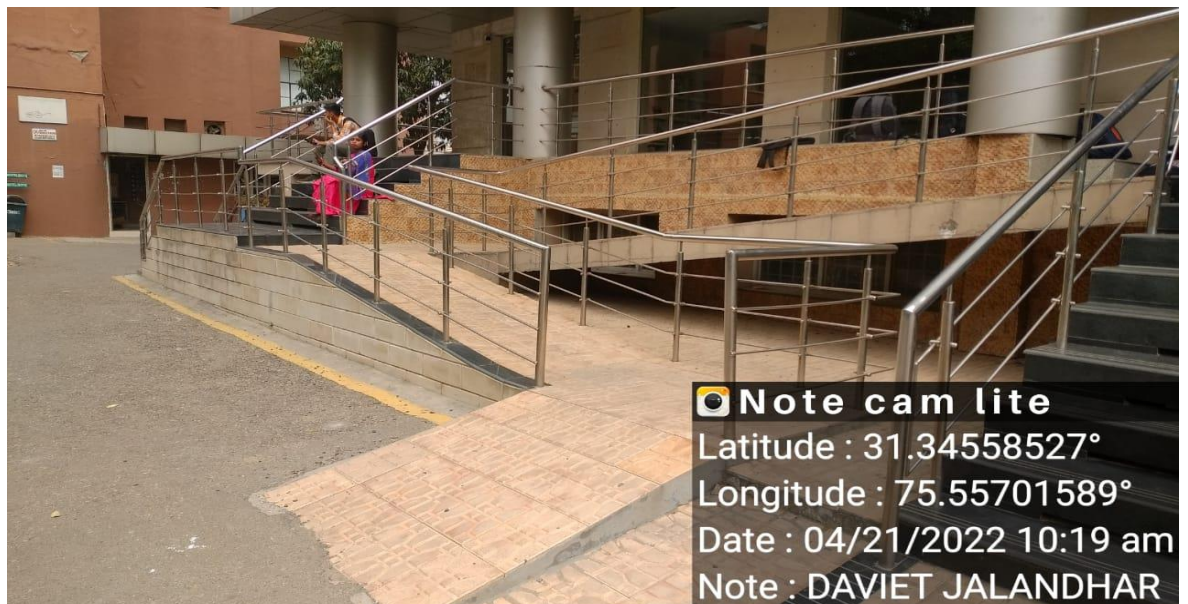
1. Ramps/lifts for easy access to classrooms and Library building floors.



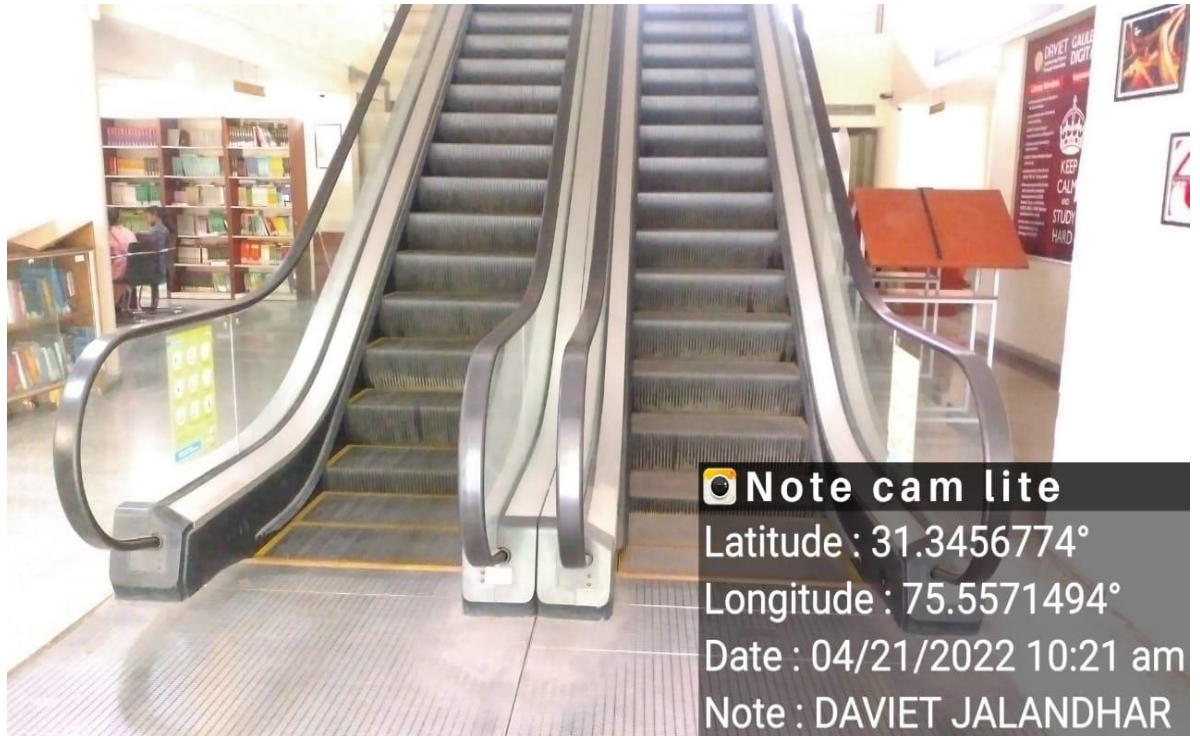
Built environment with ramps/lifts for easy access to class rooms



Built environment with ramps/lifts for easy access to class rooms and Library building



Built environment with ramps for easy access to Bank/ATM and Library building



Built environment with Escalator for easy access to Library building



Built environment with ramps/lifts for easy access to hostel rooms



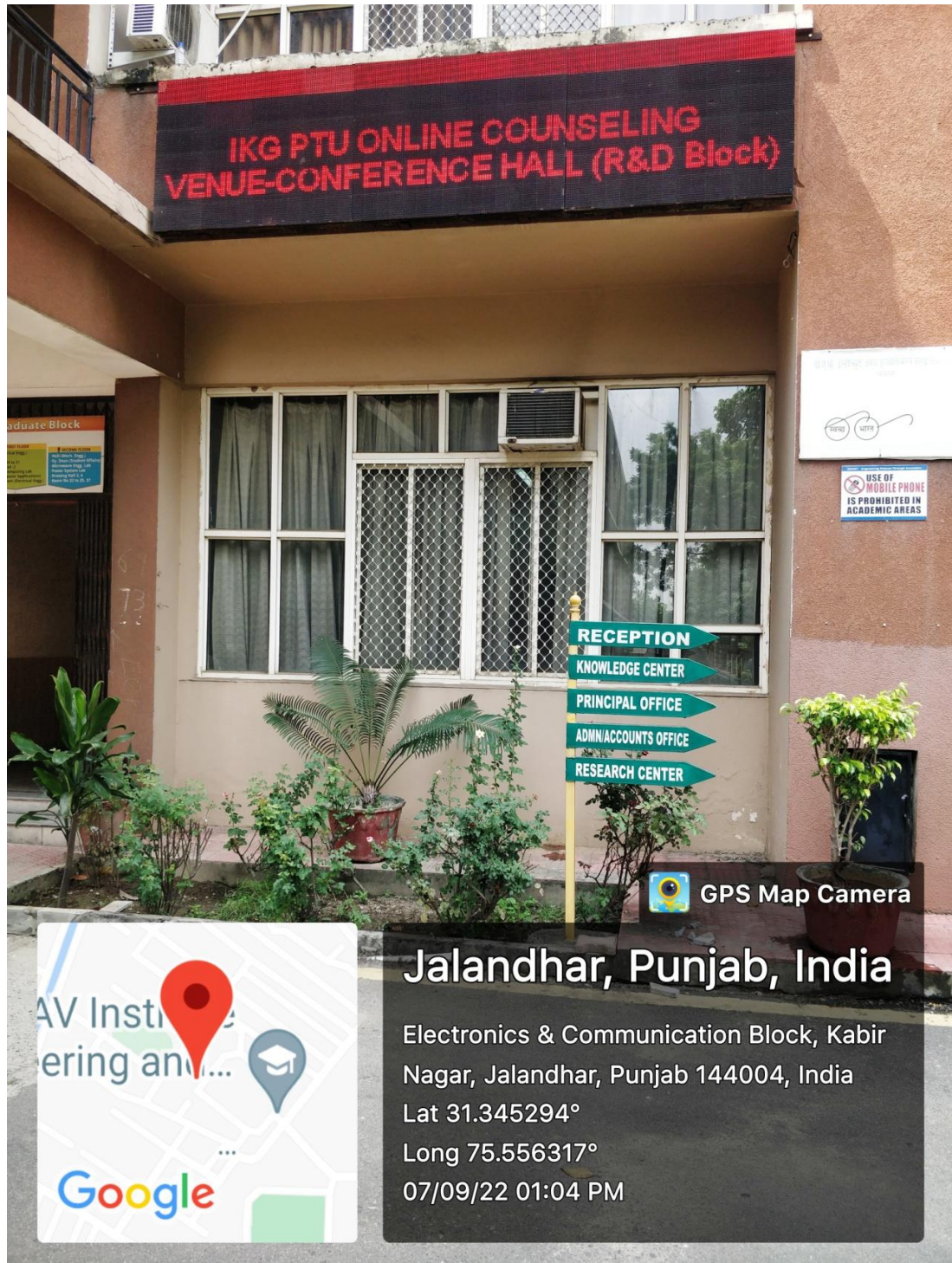
Built environment with Elevator/lift for easy access to hostel rooms

2. Disabled-friendly washrooms



Washroom for Physically Challenged Person in DAVIET

3. Signage including display boards and signposts



Signage including display boards and signposts at different locations for the help of the Disabled- friendly students

4. Provision for enquiry and information: Human assistance




Wheel Chair made available for the Physically Challenged Person in DAVIET



Human assistance made available at the reception area for the Disabled-friendly students

Policy document for the differently-abled students



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Ref. No. : DAVIET/2022-23/318

Dated : 20/5/2022

Policy Document for differently-abled Students

The College provides special attention to persons with Disabilities under the provisions of 'The Rights of Persons with Disabilities Act, 2016'. It has been felt that differently-abled persons need special arrangements in the Environment for their Mobility and Independent functioning. It is ensured by the College that all existing structures as well as future construction projects in the campus are made friendly for such persons. The Institute cares to create special facilities such as Ramps, Washrooms and Special Toilets, and make other necessary changes to suit the special needs of differently-abled persons. The construction plans clearly address the accessibility issues pertaining to disability.

The Infrastructural and other support facilities at College are Divyangjan friendly in order to make the study environment more convenient for the differently-abled students. The College has following facilities:

- Facilitating timely availability of Scholarships pertaining to these students as provided by the State and other agencies.
- Facilitating Students by giving extra time for writing examination where over applicable.
- Making provisions in the infrastructure facilities like Ramps, Railing on the Stair cases etc. Annual review of these facilities is done continually.
- Separate Washrooms are maintained.
- Sensitization, Motivational sessions and Awareness programmes are organized to inculcate the feeling of social inclusion among the Divyangjan students.
- Annual review regarding Admissions to students is done under the act.
- To conduct Awareness programmes for Teachers of the Institute, about the approaches to Teaching, Evaluation procedures, etc. which they should address in the case of differently-abled students.
- Focusing on their strengths and abilities rather than the disability and helping to strengthen them by giving them equal opportunities to participate in extra-curricular activities.


Principal
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DAVIET Disability Resource Centre

To facilitate quality higher education to students with disabilities on equal basis with others, a ‘**disability resource centre**’ with the following members of the faculty/staff has been set-up in the Institute vide office order no. **DAVIET: 2017-18/4233 dated: 27/05/2017:-**

1. Dr. Ashok Kumar : Assoc. Prof., Applied Sciences & NSS Officer
2. Ms Avani Bhatia : Asstt. Prof. (IT) & Website Coordinator
3. Ms.Sonia Chutani : Asstt. Prof. (CE)
4. Mr. Viney Kumar : Estate Officer
5. Dr. Harmanpreet Singh : Librarian

This centre facilitates the students who fall under different categories of disabilities (listed below) so that they may cope up their academic learning with normal students:-

1. The students with learning difficulty (Dyslexia, Dyspraxia, Dyscalculia, Disgraphia)
2. The students with mental health difficulty (depression, anxiety, schizophrenia etc.)
3. The students with hearing impairment
4. The students with visual impairment
5. The students with physical impairment (mobility, manual dexterity, speech difficulty)

SERVICES

The following services are being provided in this centre:-

Database: The center maintains data regarding disabilities of students.

Advisory service: The centre considers the requirement of students. It suggests them to use Institute’s facilities to get accessibility. It keeps all concerned informed about the issues to make them understand difficulties that need to be addressed well in time to avoid any crisis situations.

Training: The centre conducts workshops for instructors and student mentors (academic assistants) to create awareness about various disabilities and ways to handle the same.

Documentation: The centre creates documents to make the students aware of the facilities available for such students.

Other special provisions for Disabled students – Related to Examination

I.K.Gujral Punjab Technical University

Estd. Under Punjab Technical University Act.1996
(Punjab Act No.1 of 1997)

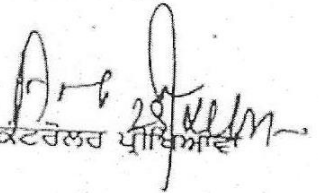
Ref. No. : IKGPTU/Dy.COE/ 11529

Dated : 29.11.2017

Principal/Director
DAV Inst. of Engg. & Tech.
Kabir Nagar, Jalandhar

ਵਿਸ਼ਾ: ਵਿਦਿਆਰਥੀ **Kajal Kumari** ਰੋਲ ਨੰਬਰ. 1704465, ਨੂੰ ਪ੍ਰੀਖਿਆ ਚੌਰਾਨ 30 ਮਿੰਟ ਵਾਧੂ ਸਮਾਂ ਦੇਣ ਸਬੰਧੀ।

ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਦੇ ਸਬੰਧ ਵਿੱਚ ਆਪ ਜੀ ਨੂੰ ਸੂਚਿਤ ਕੀਤਾ ਜਾਂਦਾ ਹੈ ਕਿ ਆਪ ਜੀ ਦੇ ਕਾਲਜ ਵੱਲੋਂ ਪ੍ਰਾਪਤ ਪੱਤਰ ਨੰ:DAVIET/8147, ਮਿਤੀ: 31.10.17 ਦੇ ਆਧਾਰ 'ਤੇ ਵਿਦਿਆਰਥੀ **Kajal Kumari** ਦੀ ਬੀਮਾਰੀ (Handicapped, Hand Problem) ਨੂੰ ਧਿਆਨ ਵਿੱਚ ਰੱਖਦੇ ਹੋਏ ਵਿਦਿਆਰਥੀ **Kajal Kumari**, ਰੋਲ ਨੰਬਰ. 1704465 ਨੂੰ ਪ੍ਰੀਖਿਆ ਚੌਰਾਨ 30 ਮਿੰਟ ਵਾਧੂ ਸਮਾਂ ਦਿੱਤਾ ਜਾਵੇ ਜੀ।


ਡਿਪਟੀ ਕੰਟਰੋਲਰ ਪ੍ਰੀਖਿਆਵਾਂ

ਉਤਾਰਾ:

1. ਕੰਟਰੋਲਰ ਪ੍ਰੀਖਿਆਵਾਂ।
2. ਸਬੰਧਤ ਵਿਦਿਆਰਥੀ ।

Other special provisions for Disabled students – Related to Examination (translated in English language)

I.K.Gujral Punjab Technical University

Estd. Under Punjab Technical University Act.1996
(Punjab Act No.1 of 1997)

Ref. No.: IKGPTU/DY.COE/ 11529

Dated: 29.11.2017

Principal/Director
DAV Inst. of Engg. & Tech.
Kabir Nagar, Jalandhar

Subject: Regarding grant of 30 minutes extra time during examination to student Kajal Kumari Roll No. 1704465.

Regarding the above subject, you are informed that on the basis of the letter No: DAVIE/8147, dated: 31.10.17 received from your college, keeping in mind the illness of the student Kajal Kumari (Handicapped, Hand Problem).

Student Kajal Kumari, roll number, 1704465 may be given 30 minutes extra time during the examination.

Deputy Controller (Examinations)

Copy to:

1. Controller Examinations.
2. Concerned students.

List of the supporting documents/videos

- 1. Video on Institute's Water Conservation and Rainwater Harvesting facility**
- 2. Video on Institute's Waste Management Activities and Best Practices**

Related video link:- 1. <https://www.youtube.com/watch?v=YQmV6crd-cE>
2. <https://www.youtube.com/watch?v=BwtVpS7vHb0>

Video 2:- (Part 1, 5 and 6)