

| 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)

7.1.3- QUALITY AUDITS ON ENVIRONMENT AND ENERGY REGULARLY UNDERTAKEN BY THE INSTITUTION (10 Marks)

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A SYNOPSIS OF
GREEN AUDIT REPORT

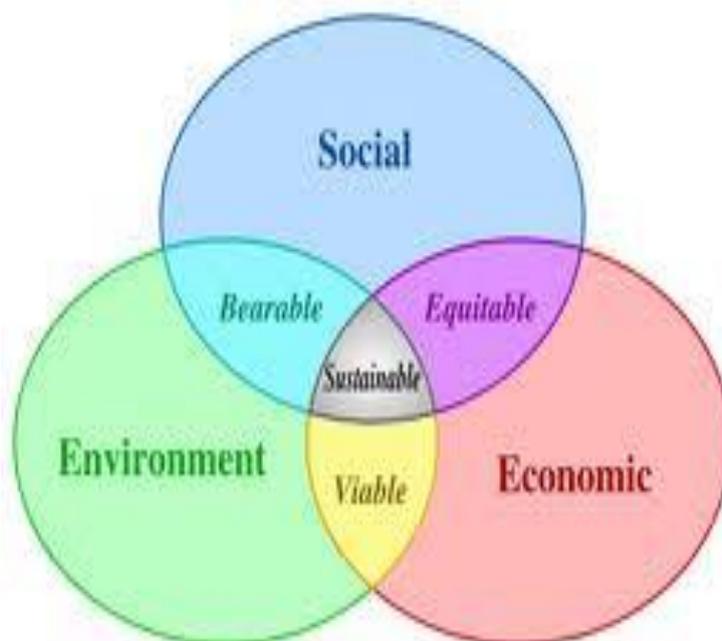
(Covering Energy, Environment & Campus Greenery)

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY

Kabir Nagar, Jalandhar City, Punjab - 144008

DATE OF AUDIT

22nd December 2021



AUDIT CONDUCTED AND SUBMITTED BY

Energy Audit/ Environmental Audit /Green Audit Committee

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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/2022-23/531

Dated 15.06.2022

Certificate

Certified that **Green Audit** including the **Energy and Environmental parameters** for the **DAV Institute of Engineering and Technology (DAVIET), Jalandhar, Punjab** has been conducted by the Institute level **Audit Committees** on **22nd Dec. 2021** as prerequisite requirement under **CRITERIA NO: 7 INSTITUTIONAL VALUES AND SOCIAL RESPONSIBILITIES.**

Dr Manoj Kumar

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

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Email : daviet@davietjal.org

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

A SYNOPSIS OF **GREEN AUDIT REPORT**

Details of the Client

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY

Kabir Nagar, Jalandhar City, Punjab - 144008

1. ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

It is our great pleasure which must be recorded here that the management of DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY (DAVIET) extended all possible support and assistance resulting in expeditious completion of the audit process. The audit team appreciates the cooperation and guidance extended during course of site visit and measurements. We are also thankful to the all those who gave us the necessary inputs and information to carry out this very vital exercise of green audit.

Finally, we offer our sincere thanks to all the members in the engineering division/ technical/non-technical and office members who were directly and indirectly involved with us during collection of data and conducting field measurements.

| <u>Management Team Members</u> | |
|---------------------------------------|---------------------------|
| Shri. Punam Suri | President |
| Shri. Ajay Suri | General Secretary |
| Dr. Manoj Kumar | Principal , DAVIET |

**A SYNOPSIS OF
GREEN AUDIT REPORT**

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY

Kabir Nagar, Jalandhar City, Punjab - 144008

**2. INTRODUCTION
TO
ENERGY-ENVIRONMENT-GREEN AUDIT PROCESS**

2.1 : Preface about the Institution:

DAV INSTITUTE of Engineering Technology (DAVIET) was established by DAVCMC Charitable Trust and Management society in the year 2001. The Trust was founded by professionals with more than 130 years of experience to impart quality education and ethical as well as societal values to the students across globe. The institution offers five UG and three PG programmes. The institution has earned acclaim for its excellent infra-structure, well equipped laboratories and highly qualified, dedicated faculty members. The institution is recognized under section 2(f) of the UGC Act 1956. It is an ISO 9001:2015 Certified Institution. Within two decade of its existence, the institution has earned laurels for its academic, placement, sports and co-curricular achievements. DAVIET is now offering Under Graduate (UG), PG and Ph.D Programmes namely;

| UG Programme | PG Programme |
|---|---|
| • Civil Engineering | • Civil Engineering |
| • Computer Science and Engineering | • Electronics & Communication Engineering |
| • Electronics & Communication Engineering | • Computer Science and Engineering |
| • Mechanical Engineering | • Business Management |
| • Information Technology | • Computer Application |
| • Electrical Engineering | • Electrical Engineering |
| • Business Management | Centre for Major Research Programme in |
| • Computer Application | • Electronics & Communication Engineering |
| • Hospitality and Tourism Management | • Computer Science and Engineering |

2.2 : Vision Statement:

- *To attain the coveted status of a growth-oriented resource of National Importance known for quality professional education, research and innovation”.*

2.3 : Mission Statement:

- *“To provide professional education with a difference confirming a confluence of inter-/multi-disciplinary knowledge domains; targeting excellence in collaboration with Industry; promoting creative competence and innovation aimed at producing skilled human resource and entrepreneurs; sustaining Indian ethics & moral values”.*

2.4 : Major Activities in the Institution:



Major Activities in the Educational Institution

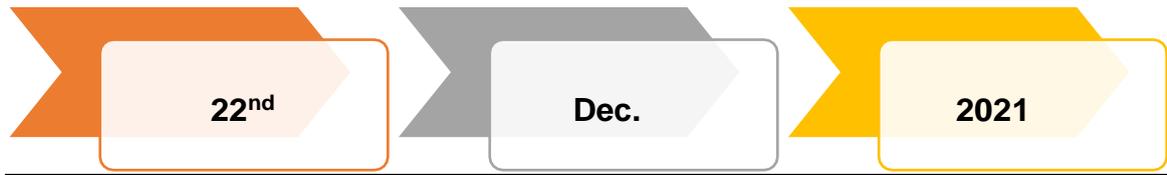
2.5 : Foreword about Energy-Environment-Campus Greenery Audit Activity:

- The primary objective of the green audit is to reduce the amount of energy utilization, reduction of water consumption, improve the green coverage without negatively affecting the productivity or comfort level.
- The vision of the green audit with a focus on energy consumption to assess the viability to upgrade the energy efficiency measures prior to investing extensive resources in electrical and thermal energy systems.
- Energy-Environment-Green audit is an inspection survey and is a major tool for analysing the present utilization of all types of energy, assessment of environmental condition and development of Campus greenery etc. Total area of the college main campus is 18 acres, of which approx. 20 percent is covered by herbs, shrubs and trees, including valuable medicinal Plants. All these plants have been systematically identified by the green audit committee members.

2.6 : Scope of the Audit:

- Identification of possible reduction of present energy consumption and thereby find the way reduce it. Also ensures to focus on Green energy generation in the college campus.
- Best practices to be followed in energy conservation, environmental management and solid waste management system.
- Detailed audit process in the college campus with a main focus to identify judicious usage of energy and sustainable environment.
- Providing constant awareness for both faculty and students in Energy, Environment and natural resources.

2.7 : Date of Audit:



2.8 : Coverage in Green Audit Process:



2.9 : Outcomes of the Audit Process:

- Minimization of present energy cost by adjusting and optimizing energy usage and reduction of energy wastage without affecting the regular activities.
- Providing a pathway to become a sustainable environment inside the college campus and nurture the importance of less energy with more productivity.
- Formation of methodology for long term road map for maintaining green environment within the campus and encourage the stakeholders for continuous improvements

2.10 : Audit Schedule:

| S. No. | Activity | Focused Area and Location of Audit |
|---------------|---|--|
| 1. | Introduction Meetings | Meeting with core committee members |
| 2. | Electrical Energy | Assessment on Annual Energy Consumption Electrical distribution, Annual Energy Cost, Simple Payback Period etc. |
| 3. | Energy Conservation Proposals | Assessment on PV System, Mounting, Electrical distribution and Energy Conservation Proposals along with Annual Energy and Financial Savings |
| 4. | Water Pumping System | Water storage, Pumps location, Water distribution, Dimensions of sump, tank and well capacity. |
| 5. | Water Distribution System | Assessment on water distribution, Water inlet & outlet and Layout analysis, RO plant |
| 6. | Rain Water Harvesting | Assessment of rain water, rain water inlet & collection and Layout analysis. |
| 7. | HVAC System | Assessment on indoor and outdoor units, Capacity/Star rating, Make & Model, Gas used, Assessment on maintenance record. |
| 8. | Usage Of Chemicals, Salts & Acids | Assessment on usage Of Chemicals, Salts & Acids, Safety measures and storage provisions |
| 9. | Solid Waste Management | Assessment of total Solid waste generation, types and reduce, reuse and recycling potential and Assessment of Composting capabilities |
| 10. | Analysis of E-Waste Management | Assessment of E-waste generation, certification and Assessment of agreements for safe disposal (recycling by authorized vendors/service providers) |
| 11. | Disposal of Biomedical Waste | Assessment of Biomedical/infection waste generated, options used for proper disposal, agreements for safe disposal of waste etc. |
| 12. | Solar PV System (Renewable) | Assessment on PV System, Mounting, Orientation, Cleaning schedule, Integration at MV panel, AC distribution and Inverter systems |
| 13. | Un-interrupted Power Supply (UPS) | Assessment on UPS capacity, Location, Condition monitoring of battery voltage |
| 14. | Green Coverage | Assessment on matured trees, location/coverage, Flowing shrubs and bushes. |
| 15. | Transport System | Assessment of total no. of vehicles, Fitness certification and Assessment of pollution certificates |
| 16. | Closing Meeting | Concluding meeting with faculty representatives at conference hall |

A SYNOPSIS OF
GREEN AUDIT REPORT

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY

Kabir Nagar, Jalandhar City, Punjab - 144008

3. ENERGY AUDIT SUMMARY

| | | |
|----|---|---|
| 1. | Sensor based energy conservation system | Sensor based energy monitoring and conservation system for measurement of electrical energy consumption along with other electrical parameters such as real power, reactive power, kWh, voltage, current, frequency, power factor of each block of the institute and all the hostels. |
| 2. | Street Lighting | Assessment of conventional street lights and recommendation of shifting to LEDs. |
| 3. | Solar water Heating | Assessment of electrical geysers, consumption and usage pattern and recommendation of solar water heater installation |
| 4. | Solar PV System (Renewable) | Assessment on grid connected solar PV System for the institute and proposal for installation of same. |

Executive Summary

Electrical Energy Analysis:

After conducting detailed audit in DAV Institute of Engineering & Technology, Jalandhar, the audit team has come out with following **audit report & energy conservation proposals** .The summary of all the audit & proposals are given below:

| S. No. | Description | Parameters | | |
|--------------------------------|--|--|---|----------------------|
| | | Before implementation of audit/proposals for energy conservation | After implementation of audit/proposals for energy conservation | Savings |
| 1 | Annual Energy Consumption (Electricity Only) (Year 2019) | 9,42,980kWh | 7,58,562kWh | 1,84,418 kWh |
| Multiplying kWh by 9.22 | | | | |
| 2 | Annual Energy Cost | Rs. 86,98,600/- | Rs. 69,93,941/- | Rs. 17,00,333 |
| 3 | Expected Energy saving in % | 19.55% | | |
| 4 | Initial Investment required | Rs. 39,81,600 | | |
| 5 | Simple Payback Period | 2.67 years | | |

A SYNOPSIS OF
GREEN AUDIT REPORT

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY

Kabir Nagar, Jalandhar City, Punjab - 144008

PART-A

ENERGY AUDIT REPORT

**4. ENERGY CONSERVATION
PROPOSALS (ENCONs)**

Table-1: Energy audit and Conservation proposal (ENCON) along with Annual Energy and Financial Savings

| S. No | Proposed Energy Conservation Measures | %Saving & Source | Estimated Savings | | Initial Investment (Rs.) | Simple Payback Period | Ref. Page. No. |
|--|---|------------------|----------------------------|------------------------|--------------------------|-----------------------|----------------|
| | | | Annual Energy Savings(kWh) | Monetary Savings (Rs.) | | | |
| Low Cost Investment (Lessthan2.0Lakhs) | | | | | | | |
| 1. | Solar water heater installation in the guest house | 100% (SWH) | 7875 | 72,607 | 55000 | 01 year | 19 |
| Medium Cost Investment (2.0Lakhs – 5.0 Lakhs) | | | | | | | |
| 2. | Replacement of conventional Street Lighting System with LEDs | 53.5% (LEDs) | 15943.2 | 1,46,996 | 2,11,600 | 1.43 years | 20 |
| High Cost Investment (Above5.0Lakhs) | | | | | | | |
| 3. | Sensor based energy monitoring and conservation system | 20% (ACs) | 30,600 | 2,82,132 | 5,15,000 | 1.83 years | 21 |
| 4. | Installing grid connected Roof Top Solar Photovoltaic power plant | 13.8% (SPV) | 1,30,000 | Rs.11,98,600 | 32,00,000 | 2.67 years | 22 |
| Total | | | 1,84,418 kWh | Rs. 17,00,335 | Rs. 39,81,600 | -- | -- |

| | |
|----------------------------|---|
| ENCON-1 | Solar water heater installation in the guest house |
| Assessment Area | Institute Guest house |
| Observations | <ul style="list-style-type: none"> • 07 geysers of 35 liters each were installed in the institute guest house in the college campus. • Expected usage of geysers during winter is 03 hours daily. |
| Assessments | <ul style="list-style-type: none"> • Wattage of each geyser is 2.5 kW. • Energy consumed during the season is approx. 7875 kWh |
| Recommendation (Target) | <ul style="list-style-type: none"> • Two Solar water heaters (Flat plate and evacuated tube type) of 500 liters capacity to be installed to save the power consumed by electrical based geysers. |

Energy & Financial Saving Calculation

| Parameters | Description | |
|-----------------------------|---------------|-------------------|
| Total No. of water geysers | 7 No's. | |
| Energy Calculation | Before | After |
| Expected % of Energy Saving | ----- | 100% |
| Annual Energy Saving | ----- | 7875 kWh |
| Annual Financial Saving | ----- | Rs. 72,607 |
| Initial Investment | ----- | Rs. 55,000 |
| Simple Payback | | 1 year |

| | |
|----------------------------|--|
| ENCON-2 | Replacement of conventional Street Lighting System with LEDs |
| Assessment Area | Street lighting forth entire campus |
| Observations | <ul style="list-style-type: none"> • The total 36 Nos. of Street light poles with 150W each metal halide lamps (Total load of 09 kW) installed along the campus area roads • A Light tower located in the front lawn with 12 metal halides of 400 W each with total load of 9.6 kW. • All the light sare operated mostly between 8.00 PM to 4.00 AM (8 hours/day) and this may vary depends on the season. |
| Recommendation (Target) | <ul style="list-style-type: none"> • For street lighting system, it is recommended to replace metal halide lamps with LEDs lights (36 Nos. of 65W each) • For Light tower located, it is recommended to replace the metal halide lamps with LEDs (08 Nos. of 300W each) • To install timer switches with street lighting and light tower and to program for seasonal conditions and minimum lighting requirement during late night hours. |

Energy & Financial Saving Calculation

| Parameters | Description | |
|--|---|---------------------|
| Total no. of street lights | 36 No's of 150W each + light tower with 12 lights of 400 watt each | |
| Energy Calculation | Before | After |
| Expected % of Energy Saving | — | 53.5% |
| Expected Energy consumption | 29784 kWh | 13840.8 kWh |
| (8 hrs per day considered for all 365days) | | |
| Annual Energy Saving | -- | 15943.2 kWh |
| Annual Financial Saving | -- | Rs 1,46,996 |
| Initial Investment | - | Rs, 2,11,600 |
| Simple Payback | -- | 1.43 year |

Sensor based energy monitoring & conservation System

In order to conserve the energy, first requirement is to analyze the energy usages pattern and to measure various parameters required for energy conservation. At DAVIET, this monitoring is performed by a Sensor based energy monitoring and conservation system installed in the institute by Equilibrium energy. It is a cloud base sensor system provides the measurement of all electrical parameters such as real power, reactive power, kWh, voltage, current, frequency, power factor of each block of the institute and all the hostels.

All the electrical quantities can be monitored live and can be analyzed as per requirement. If there is any abnormal condition/fault occurs in the system, it is informed to the personnel via text message on mobile phone by the company.

Based upon the assessment of the data readings from this system, the team has proposed the following Energy conservation proposals (ENCONs) to the institute for better energy management.

| | |
|----------------------------|--|
| ENCON -1 | Sensor based energy monitoring and conservation system |
| Assessment Area | Institute academic blocks and Hostels of the Institute |
| Observations | <ul style="list-style-type: none"> • Through the data analysis of this software, high consumption areas were identified. • Hostels were the main areas seen as high energy consumption blocks. • For AC rooms of the hostel electrical supply was not metered, hence higher consumption due to misuse of AC's |
| Recommendation (Target) | <ul style="list-style-type: none"> • Power supply to all the AC rooms in the hostels need to be metered for individual rooms and are there should be charges if the consumption is more than the allotted no. of free unit's. • The resident will be aware of its consumption and wastage of electricity is prevented. |

Energy & Financial Saving Calculation

| Parameters | Description | |
|--|--------------------|------------------------|
| Total Load of ACs in kW | 102kW | |
| Energy Calculation | Before | After |
| Expected % of Energy Saving | ----- | 20% |
| (Considering 150 days, 10 hours for before and 8 hours for after) | | |
| Expected Energy consumption | 1,53,000kWh | 1,22,400kWh |
| Annual Energy Saving | | 30,600kWh |
| Annual Financial Saving | | Rs. 2,82,132 /- |
| Initial Investment | ----- | Rs.5,15,000/- |
| Simple Payback | ----- | 1.83 year |

| | |
|----------------------------|---|
| ENCON -4 | Installing grid connected Roof Top Solar Photovoltaic power plant |
| Assessment Area | Energy generation from Roof Top Solar Photovoltaic System |
| Observations | <ul style="list-style-type: none"> • 300kW proof top solar PV plant is planned to install in the campus in three phases of 100kWp with adequate cleaning at regular interval as the dust accumulation must reduce the expected power output and hence it will be a loss of generation. • In general; a minimum of 1% power generation may be improved by regularly cleaning the panels. Most of the bulk power generating solar PV plant has separate panel cleaning schedule (pipes, cleaning detergents and man power) to operate the same. |
| Recommendation (Target) | <ul style="list-style-type: none"> • In first 7 phase 100kWp solar plant is proposed in the DAVIET campus. • Prepare a separate cleaning schedule; assign a team of members with higher degree of supervision. Visually inspect the panels for any damage, cracks, stains and other abnormalities. • Even conduct an IR thermography study on the solar panels, solar DC and AC connectors, AJB and Inverter once in a year. |

Energy & Financial Saving Calculation

| Parameters | Description |
|--|-----------------------------|
| Proposed Installed capacity of SPV Plant | 100kWp |
| Location | Roof Top Area in the campus |
| Energy Calculations With Grid Connected system (Year 2019) | |
| Electrical Units consumed annually | 9,42,980 kWh |
| Annual Electricity Bill | Rs. 86,98,600/- |
| Current Average Electricity Rate | Rs. 9.22 (per unit) |
| With Proposed Roof Top Solar Power Plant(100 kWp Capacity) | |
| Electricity Units Generated annually | 1,30,000 Units |
| Cost of units generated annually In INR | Rs.11,98,600 |
| Average Revenue per year In INR | Rs.11,98,600 |
| Annual Financial Saving after payback period In INR | Rs.11,98,600 |
| Initial Investment | 32,00,000/- |
| Simple Payback | 2.67 years |

05-10-08
RETAIL INVOICE
 (Original Copy)
 CASH/CREDIT

No. 5
 Date 23/10/08

0181-220012
 Tel/Fax: 0181-220012
 mail: daviet@...
& TECHN

MANIK SOLAR INNOVATION

ADDA BASTI ROAD, NEAR RAJA HOSPITAL, JALANDHAR-144 008 (Pb.) INDIA
 PHONE: +91-181-2404454, 2404455

M/s DAV Institute of Engineering
 + Technology
 Jalandhar

Your Order No. 2879 Dated 28/7/08

Transportation.....

Customer TIN No.....

GR/RR No..... Dated.....

| S. No. | Full Description of Goods | Unit | Qty. | Rate | Amount Rs. | P. |
|---|---|------|------|-------|--------------|-------|
| 1. | 100 ltrs/day with electrical backup. ETC based Solar water heater | NoS | 02 | 18250 | 36500 | - |
| CPS Thirty Seven thousand Nine hundred & sixty only | | | | | | |
| | | | | | Amount | 36500 |
| | | | | | Tax VAT@ 4% | 1460 |
| | | | | | Total Amount | 37960 |

Verified
 Bajaj

AIC

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**

Smiley
 Authorised Signatory

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)

19/09/08

SILVERLINE INDUSTRIES



TIN NO. : 04250021142

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 2878 | | |
| | | DATE : 25/7/08 | | |
| Despatched/Delivery Through | | Encl. Challan 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 nos) 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 |
| RUPEES | | Ninty-six thousand only. | | E. & O. E. |
| All disputes will be settled in Chandigarh | | For SILVERLINE INDUSTRIES Sanchal Uppal Manager/Prop. | | |

AIC
13/9/08

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)

NO. 03532058926

07/10/10

RETAIL / VAT INVOICE

01685-231021
0172-2210099
099880 09974
099880 09989

1126
650
.org
BY



United Solar Engg. & Technologies

HEAD OFFICE:
Muktsar Road, Near Shivkoti Mandir, Kuli Chowk, V & P.O. Guru Harshah
Teh: Jalandhar (W), Distt. Ferozpur (Pb.), Pin: 152022

BRANCH OFFICE
Plot No. 197, Phase 9, Ind. Area, Mohali (Pb.)

M/s DAVIET (DAV College)
Institute of Engineering & Technology

Invoice No. 49 Dated 19/8/10

Parties TIN No. _____ Our Quotation No. _____ Dated _____

P.O. Ref. No. _____ Dated _____ Transport _____

Delivery Challan No. _____ Dated _____ GR/RR No. _____ Dated _____

Payment Terms By Cheque No of Boxes _____ Freight _____

| Sr. No. | DESCRIPTION | QTY. | RATE | AMOUNT | |
|------------------------|---|------|--------|--------|----|
| | | | | Rs. | P. |
| 1. | Installation of Solar Stand Alone Security Lights. Description:- LED - 192. (3. v each 130° Angle) + 2000 MCD | 4. | 23,500 | 94,000 | 00 |
| 2. | Battery Make:- Exide. 40 AH. Tubular 12V | | | | |
| 3. | Battery Box Solid Box Poly Carbonate. | | | | |
| 4. | Pole MS. 3.5" OD. | | | | |
| 5. | SPV. Mono Crystalline 37W, 12V. | | | | |
| 6. | Inbuilt Charging Controller With Auto Dusk to Dawn. Customer's Signature | | | | |
| TOTAL | | | | 94,000 | 00 |
| VAT @ 5%... | | | | 4,700 | 00 |
| @ 10% Surcharges | | | | 470 | 00 |
| Transportation Charges | | | | | |
| Grand Total | | | | 99,170 | 00 |

Rupees (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 Mohali 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)

(Original for Buyer)

EXCISE INVOICE

(ISSUE OF INVOICE UNDER RULE 11 OF CENTRAL EXCISE RULES 2002)

Ecolibrium Energy Private Limited

504, Venus Atlantis, 100FT Ring Road,, Anandnagar Road, Prahladnagar,, Ahmedabad-15.
CIN: U40108KA2008PTC048176

Block 340, Godown Number 5,, Opp Innovative Mixing Plant, Near Harsha Engineers,, Changodar, Ahmedabad -382213

Company's GSTIN/UIN : 24AACCE1600M1Z1
PAN/Income Tax No. : AACCE1600MEM001

Range : V
Division : V
Commissionerate : II / AHMEDABAD
PAN / Income Tax No. : AACCE1600M

Company's Bank Details
Bank Name : HDFC Bank CA No. 08902560000790
A/c No. : 08902560000790

Branch : Prahladnagar
IFS Code : HDFC0000890

Consignee
DAV Institute of Engineering and Technology
Karbir Nagar
Punjab
Jalandhar
India 144008

Invoice No. : INVE16-17-MAR-0178
Dated : 10-Mar-2017
Buyer's Order No. : DAVIET/2016-17/9554
Dated : 16-Feb-2017
Delivery Note : Dated

Supplier's Ref./Order No. : INVE16-17-MAR-0178
Despatch Document No.

Buyer (if other than consignee)
DAV Institute of Engineering and Technology
Karbir Nagar
Punjab
Jalandhar
India 144008

Despatched through : Destination

Date & Time of issue of Invoice : 10-Mar-2017 at 15:45
Motor Vehicle No.

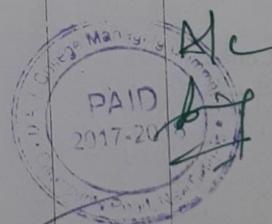
Date & Time of Removal of Goods : 10-Mar-2017 at 15:45
Authenticated By : for Ecolibrium Energy Private Limited

Mode/Terms of Payment : as per po

Authorised Signatory

| SI No. | Description of Goods | Tariff / HSN Classification | Quantity | Rate | per | Amount |
|--------------|----------------------|-----------------------------|--------------|-----------|-----|----------------------|
| 1 | MX Smartsense Meter+ | | 3 Nos | 60,000.00 | Nos | 1,80,000.00 |
| | | Excise Duty CST 5%() | | 12.50 | % | 22,500.00 |
| | | | | 5 | % | 10,125.00 |
| Total | | | 3 Nos | | | ₹ 2,12,625.00 |

Sub Section Stamp
Registered Firm (61)
(Balasind)



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

Serial No. in PLA/RG-23 :

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

Authorised Signatory

This is a Computer Generated Invoice

E. & O.E

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

colibrium Energy Private Limited
 4, Venus Atlantis, 100FT Ring Road,
 Pradhannagar Road, Prahladnagar,
 Ahmedabad-15.
 TIN: U40108KA2008PTC048176

Invoice No.
INVRI-16-17-Mar-0069
 Delivery Note

Dated
10-Mar-2017
 Mode/Terms of Payment
as per po
 Other Reference(s)

Supplier's Ref.
INVRI16-17-MAR-0069
 Buyer's Order No.
DAVIET/2016-17/9554
 Despatch Document No.

Dated
16-Feb-2017
 Delivery Note Date

Consignee
DAV Institute of Engineering and Technology
 Karbir Nagar
 Punjab
 Jalandhar
 India 144008
 PAN/IT No :

Despatched through

Destination

Buyer (if other than consignee)
DAV Institute of Engineering and Technology
 Karbir Nagar
 Punjab
 Jalandhar
 India 144008
 PAN/IT No :

Terms of Delivery
SO1663

| SI No. | Description of Goods | Quantity | Rate | per | Amount |
|--------|--|----------------|----------|-----|----------------------|
| 1 | Schneider MFM EM6400 | 8 Nos | 9,000.00 | Nos | 72,000.00 |
| 2 | Digital Meter-Class1.0-Schnieder Conzerve-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 |
| | CST 5% | | | 5 % | 12,000.00 |
| | Total | 120 Nos | | | ₹ 2,52,000.00 |

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

*Sub Sanction Invoice
 Ledger no. 61
 (Balwinets)*



Company's PAN : **AACCE1600M**

Company's Bank Details
 Bank Name : **HDFC Bank CA No. 08902560000790**
 A/c No. : **08902560000790**
 Branch & IFS Code : **Prahladnagar & HDFC0000890**

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

for **Ecolibrium Energy Private Limited**

[Signature]
 Authorised 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 Ecolibrium Energy Pvt. Ltd., Ahmadabad)

Photographs related to solar energy systems in the campus

Solar Street Lights



Solar Street Lights installed in DAVIET, Jalandhar



Solar Street Lights installed in DAVIET, Jalandhar

1. 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

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.



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



INFINIX HOT 9 PRO
AI QUAD CAMERA

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

**A SYNOPSIS OF
GREEN AUDIT REPORT**

**DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY
Kabir Nagar, Jalandhar City, Punjab - 144008**

**PART-B1
ENVIRONMENTAL AUDIT REPORT**

5. ANALYSIS OF WATER CONSUMPTION

5.1 : Source of Water, Storage and Distribution:

Water is one of the main consumable in the college campus. DAVIET gets the fresh water from three sources namely i) Bore well ii) Rain Water Harvesting (RWH). Table-1 shows the source of water, location of storage along with their application.

Table-1: Source of Water, Location of Storage and Application

| Type of Water | Source | Location | Application |
|---------------|---|---|---|
| Fresh Water | 3 no's of pumps (Bore Water) | <ul style="list-style-type: none">• In front Lawn• Near Substation• Near girls hostel | <ul style="list-style-type: none">• Cooking• Utensil Cleaning• Bathing• Clothing washing |
| | Rain Water Harvesting (RWH) system is located near the college guesthouse | | |

5.2 : Reverse Osmosis (RO) Plant and Treated Water for Drinking Application:

- The college management is keen on providing uninterrupted, safe and healthy drinking water to all; throughout the year. This water is being checked in an accredited laboratory and ensures that the water is potable.
- There are 17 Commercial and 32 domestic RO system located at various locations within the institute.
- The specifications of RO Plant and distribution of potable water to the entire campus is given in Table-2.: Specification of RO Plant

Table-2: Specification of RO Plant and Potable Water Distribution

| S. No. | Parameters | Description |
|--------|---|--|
| 1. | Capacity of the RO Plants | <ul style="list-style-type: none">• 50 Liter per day (Domestic RO system)• 50 Liter per hour (Commercial RO system) |
| 2. | Location | <ul style="list-style-type: none">• All academic and Hostel Block Buildings |
| 3. | Source of raw water | <ul style="list-style-type: none">• Bore water + Outside water |
| 4. | % of RO water output | <ul style="list-style-type: none">• 30 to 50 % approximately |
| 5. | Cleaning schedule of carbon & sand filter | <ul style="list-style-type: none">• Yearly twice |
| 6. | Cleaning schedule of membrane | <ul style="list-style-type: none">• Every Month |
| 7. | Back washing duration | <ul style="list-style-type: none">• 10 min/day |
| 8. | Functioning of RO Plants | <ul style="list-style-type: none">• Manual <p>(operated based on the students strength)</p> |
| 9. | Provision for automatic controller | <ul style="list-style-type: none">• Not available (To be implemented) |



Water pumping and withdrawal facilities available within the Institute



Water pumping and withdrawal facilities available within the Institute



📷 Note cam lite
Latitude : 31.3464974°
Longitude : 75.5558365°
Date : 04/21/2022 11:00 am
Note : DAVIET JALANDHAR

Water storage and Treatment facilities available within the Institute



Water storage and treatment facilities available within the Institute



Water storage and treatment facilities available within the Institute

5.3: Rain Water Harvesting (RWH) System:

- Water is an important natural resource and is the very basis of our life. Water is a cyclic resource which can be used again and again after cleaning. The best way to conserve water is its judicious use.
- RWH is an option which has been adopted to collect and storage of rain water and also other activities aimed at harvesting surface water, prevention of loss through evaporation and seepage.
- The college has a suitable recharge structure (recharge pit) for rain water harvesting located on the right side of the Material Science block. The overall rain water collected is properly rooted to this recharge pit and supports to increase the ground water table of the region.



Rain water harvesting system installed in the DAVIET Campus



Rain water harvesting tank installed in the DAVIET Campus
(Located near Material Science Block of DAVIET Campus)

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

A SYNOPSIS OF
GREEN AUDIT REPORT

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY
Kabir Nagar, Jalandhar City, Punjab - 144008

PART-B2
ENVIRONMENTAL AUDIT REPORT

6. ANALYSIS OF HVAC SYSTEM

Total Ductable ACs of the Institute

| Sr. No. | Type of AC | Installed at | Nos. | Total Nos. |
|---------|--------------------|--|------|------------|
| 1. | 5.5 TR Ductable | CAD Lab, Material Science Block | 01 | 22 |
| 2. | | CCNA Lab, Core Block | 01 | |
| 3. | | Office of the Principal, R&D Block | 01 | |
| 4. | | Reception, R&D Block | 01 | |
| 5. | | Programming Language Lab, Core Block | 01 | |
| 6. | | Project Lab, Core Block | 01 | |
| 7. | | Knowledge Centre Library 1 st floor | 04 | |
| 8. | | Knowledge Centre K1 2 nd floor seminar hall | 02 | |
| 9. | | Knowledge Centre K2 2 nd floor restaurant | 01 | |
| 10. | | Knowledge Centre K5 3 rd floor computer lab | 01 | |
| 11. | | Knowledge Centre K6 3 rd floor | 01 | |
| 12. | | Knowledge Centre K8 3 rd floor | 01 | |
| 13. | | Knowledge Centre MCA Lab 2 nd floor | 01 | |
| 14. | | Knowledge Centre Ground Floor | 01 | |
| 15. | | Smart Rooms | 04 | |
| 16. | 7.5 TR Ductable | RDBMS & Operating System Lab, Core Block | 01 | 01 |
| 17. | 8.5 TR Ductable | Conference Hall, R&D Block | 01 | 23 |
| 18. | | Auditorium | 10 | |
| 19. | | Advance Computing Lab | 01 | |
| 20. | | Convention Hall | 07 | |
| 21. | | Knowledge Centre Library 1 st floor | 01 | |
| 22. | | Knowledge Centre Ground Floor | 02 | |
| 23. | | VLSI Lab | 01 | |

Split and Window ACs:

| Sr. No. | Type of AC | Installed at | Nos. | Total Nos. |
|---------|----------------------------------|--|------|------------|
| 1. | 0.8 Ton To 2 Ton Window | Office of the Time Table Incharge MBA Deptt. | 01 | 159 |
| 2. | | Language Lab PG Block | 04 | |
| 3. | | PG Computer Lab | 02 | |
| 4. | | Office of the PP Sharma, R&D Block | 01 | |
| 5. | | Knowledge Centre Store | 01 | |
| 6. | | PG Boys Hostel | 58 | |
| 7. | | Shivani Mehta EE Office | 01 | |
| 8. | | Office of the HOD (CSE), R&D Block | 01 | |
| 9. | | Faculty Room (Gground Floor), Core Block | 01 | |
| 10. | | Administrative Block, R&D Block | 02 | |
| 11. | | Accounts Office, R&D Block | 01 | |
| 12. | | Central Computing Lab, Core Block | 02 | |
| 13. | | Girls Hostel | 30 | |
| 14. | | Prveen Kakar Office | 01 | |
| 15. | | Server Room, Core Block | 01 | |
| 16. | | TPO Department | 03 | |
| 17. | | Dr. Kiran Ahuja ECE | 01 | |
| 18. | | Manpreet Beddi Office | 01 | |
| 19. | | Dr. Kanchan L Singh | 01 | |
| 20. | | Computer Programming Lab First Floor | 02 | |
| 21. | | Operating System Lab Cor Block | 01 | |
| 22. | | GEO Tech Lab | 01 | |
| 23. | | Office of PA OF Principal | 01 | |
| 24. | | UG Boys Hostel | 35 | |
| 25. | | Faculty Room (MBA), PG Block | 01 | |
| 26. | | GD Room Core Block | 02 | |

| | | | | |
|-----|------------------------|--|----|----|
| 27. | | Knowledge Centre Crèche | 01 | |
| 28. | | Knowledge Centre Library Office | 01 | |
| 29. | | Estate Officer Office | 01 | |
| 30. | 1.5 TR / 2 TR Split | Dr. Sanjeev Saini Office | 01 | 65 |
| 31. | | EMM Lab Material Science Block | 02 | |
| 32. | | Faculty Room EE | 01 | |
| 33. | | PG Computer Lab | 01 | |
| 34. | | Sports Office | 01 | |
| 35. | | Computer Lab (Opp. Server Room) | 01 | |
| 36. | | Seminar Hall, Core Block | 06 | |
| 37. | | Dr. Jagjeet Malhotra Office | 01 | |
| 38. | | Office of the HOD (CE), Material Science Block | 01 | |
| 39. | | Library Cassette Type | 02 | |
| 40. | | Physics Lab | 01 | |
| 41. | | Project Lab | 01 | |
| 42. | | Lecture Hall 31 | 01 | |
| 43. | | Administrative Block, R&D Block | 01 | |
| 44. | | Accounts Office, R&D Block | 01 | |
| 45. | | Faculty Room Civil Deptt. | 01 | |
| 46. | | Office of the HOD (ECE), UG Block | 01 | |
| 47. | | Office of the HOD (EE), UG Block | 01 | |
| 48. | | Office of the TPO, UG Block | 01 | |
| 49. | | Office of the COE, UG Block | 01 | |
| 50. | | Faculty Room (ECE), UG Block | 01 | |
| 51. | | MMM Lab (Balbir) | 02 | |
| 52. | | Maini Sir Office (MMM) | 01 | |
| 53. | | Server Room Core Block | 01 | |
| 54. | | Machine Shop CNC | 01 | |
| 55. | | GD Room MBA | 01 | |
| 56. | | Sanjay Goel Office | 01 | |
| 57. | | Faculty Room CSE R&D Block | 01 | |

| | | | | |
|-----|--|-----------------------------------|-----------|--|
| 58. | | Office of the HOD (MBA), PG Block | 01 | |
| 59. | | Knowledge Centre Rooms | 04 | |
| 60. | | Faculty Room Mechanical Deptt. | 01 | |
| 61. | | Dr. Anil Soni & PA Office | 02 | |
| 62. | | Faculty Room IT Deptt. | 01 | |
| 63. | | RDBMS Lab | 01 | |
| 64. | | HOD IT Office | 01 | |
| 65. | | Dr. Jagroop Office | 01 | |
| 66. | | Doctor's Room | 01 | |
| 67. | | Gaurav Dhuria Office | 01 | |
| 68. | | Old + New Guest House | 14 | |
| 69. | | Central Computing Lab | 01 | |

A SYNOPSIS OF
GREEN AUDIT REPORT

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY
Kabir Nagar, Jalandhar City, Punjab - 144008

PART-B4
ENVIRONMENTAL AUDIT REPORT

7. USAGE OF CHEMICALS, SALTS & ACIDS
(HANDLING, STORAGE AND BEST OPERATING PRACTICES)

7.1: List of Chemicals Used, Storage Method and their Application:

Table-7 shows the list of various chemicals/salts/acids used in the Department of Science and Humanities (S&H) laboratories indicating method of storage, dilution and their application area.

Table-7: List of Chemicals Used, Storage Method and Application

| | | | |
|-------------------------------|------------|-------------------------------|-------------------------------|
| Name of the Department | Chemistry | Name of the Laboratory | Chemical Analysis Laboratory |
| Name of the Department | Civil Engg | Name of the Laboratory | Environmental Engg Laboratory |

| S. No. | Chemicals/Salts/Acids Used | Method of Storage | Method of Dilution | Application |
|--------|----------------------------|--|---|--|
| 1 | Hydrochloric Acid | Acid cabinet | Adding the acid to water slowly and with constant stirring. | Volumetric, Conduct metric analysis and synthesis. |
| 2 | Sulphuric Acid | | Adding the acid to water slowly and with constant stirring. | Volumetric, Conduct metric analysis and synthesis. |
| 3 | Acetic Acid Glacial | Acid cabinet | Adding the acid to water slowly and with constant stirring. | Volumetric, Conduct metric analysis and synthesis. |
| 4 | EDTA Disodium Salt | Stored in medium shelf and below eye level | - | Volumetric analysis |
| 5 | Ammonia Solution | | - | Chromatography |
| 6 | Potassium Hydroxide | | - | Volumetric analysis |
| 7 | Potassium Iodide | | - | Volumetric analysis |
| 8 | Sodium Thiosulphate | | - | Volumetric analysis |
| 9 | Phenolphthalein Solution | | - | Volumetric analysis |
| 10 | Starch Soluble | | - | Volumetric analysis |
| 11 | Eriochrome Black-T Powder | | - | Volumetric analysis |
| 12 | Sodium Hydroxide pellets | - | Volumetric analysis | |
| 13 | Calcium Chloride | - | Volumetric analysis | |
| 14 | Ethanol | - | Volumetric analysis | |
| 15 | Propanol | - | Volumetric analysis, Chromatography | |
| 16 | Ammonia Buffer Solution | - | Volumetric analysis | |
| 17 | Phenol | - | Synthesis | |
| 18 | Formaldehyde solution | - | Synthesis | |
| 19 | Salicylic acid | - | Synthesis | |

| | | | | |
|----|---------------------------------|--|---|--------------------------------------|
| 20 | Acetyl chloride | | - | Synthesis |
| 21 | Succinic acid | | - | Volumetric analysis |
| 22 | Silica gel | | - | Chromatography |
| 23 | Ethyl acetate | | - | Volumetric analysis |
| 24 | Activated charcoal | | - | Volumetric analysis |
| 25 | Nitric Acid L.R.(Nice) | Stored in acid cabinets, but it is kept isolated from all other acids. | Adding the acid to water slowly and with constant stirring. | Volumetric, Conductometric analysis. |
| 26 | Acetone | | Adding the acid to water slowly and with constant stirring. | Volumetric analysis. |
| 27 | EDTA Disodium Salt | Stored in medium shelf and below eye level | - | Volumetric analysis. |
| 28 | Ammonia Solution | | Adding the acid to water slowly and with constant stirring. | Volumetric analysis. |
| 29 | Copper Sulphate | | - | Volumetric analysis. |
| 30 | Zinc Sulphate | | - | Volumetric analysis. |
| 31 | Sodium Sulphate | | - | Volumetric analysis. |
| 32 | Magnesium Sulphate | | - | Volumetric analysis. |
| 33 | Potassium Permanganate | | - | Volumetric analysis. |
| 34 | Potassium Dichromate | | - | Volumetric analysis. |
| 35 | Ammonium Ferrous Sulphate | | - | Volumetric analysis. |
| 36 | Ammonium Chloride | | - | Volumetric analysis. |
| 36 | Phenolphthalein Powder | | - | Volumetric analysis. |
| 37 | Phenolphthalein Solution | - | Volumetric analysis. | |
| 38 | Ammonium Purpurate | - | Volumetric analysis. | |
| 39 | Methyl Orange Powder | - | Volumetric analysis. | |
| 40 | Methyl Orange Solution | - | Volumetric analysis. | |
| 41 | Starch insoluble (Nice) | - | Volumetric analysis. | |
| 42 | Eriochrome Black-T Powder(Nice) | - | Volumetric analysis. | |
| 43 | Silver Nitrate L.R.(Nice) | - | Volumetric analysis. | |
| 44 | Potassium Chromate | - | Volumetric analysis. | |
| 45 | Sodium Chloride L.R.(Nice) | - | Volumetric analysis. | |
| 46 | Calcium Chloride | - | Volumetric analysis. | |
| 47 | Barium Chloride | - | Volumetric analysis. | |

| | | | | |
|----|-------------------------------|--|---|----------------------|
| 48 | Ethanol | | - | Volumetric analysis. |
| 49 | Potassium Chloride | | - | Volumetric analysis. |
| 50 | 1,10,Phenanthroline Hydrate | | - | Volumetric analysis. |
| 51 | Manganous Sulphate L.R.(Nice) | | - | Volumetric analysis. |
| 52 | Ferrous Sulphate | | - | Volumetric analysis. |
| 53 | Ammonium Oxalate | | - | Volumetric analysis. |
| 54 | Calcium Carbonate | | - | Volumetric analysis. |

7.2: General Instructions given to the Students while working in the Laboratory:

- Never work in the lab unless a demonstrator or a teacher is present.
- Never taste any chemicals and don't allow chemicals to come in contact with your skin.
- Don't throw waste into the sink; rather they must be thrown into the waste pins.
- Keep all the doors and windows open while working the laboratory.

- Sulphuric acid must be diluted only when it is in cold condition.
- Reagent bottles must never be allowed to accumulate on the work bench.
- Containers used for reactions must be properly labelled.
- Working space should be cleaned immediately.
- Protection and safety is most important.
- While entering the laboratory, everyone must wear lab coat and shoes.
- Prior knowledge on hazardous property of the chemicals is must.
- Seek the advice of faculty and technical staffs during emergency.
- Know the location of first aid box and fire extinguishers located in the laboratory.
- Don't attend any self-medical practices either for you or for your fellow students.

7.3: Recommendations:

- Most of the chemical, salts and acids used in the science department are inorganic in nature and no harmful effects were created during the experiment process. However after completion of each experiment, the wastes are washed in the water sink and are rooted to sewage lines.
- Ascertain that the chemicals/salts/acids used in the college campus for their academic/research application does not pollute the mother earth.
- Submit a detailed audit report based on the specified metric (may be developed internally) to the approved committee annually ensure the minimization of chemical pollution.
- Though the quantity of the chemical wastes generated in an annum is small it is appropriate to divert and treat this effluent to some other means (not letting out to STP).
- The best ways recommended as to treat this is;
 - Design a dedicated system and collect the chemical wastes in a separate tank with suitable backup facility. Once the tank fills; then transfer the effluent to nearby authorized Effluent Treatment Plant (ETP). An agreement may be made between the college and the ETP authorities over a certain period of time.

A SYNOPSIS OF
GREEN AUDIT REPORT

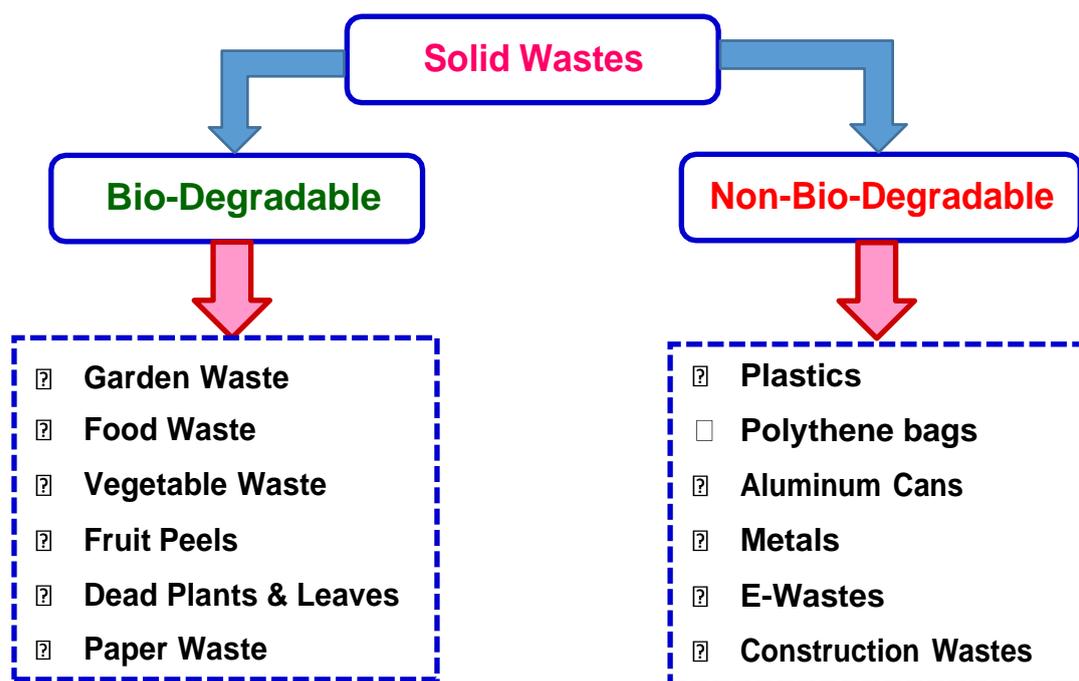
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Kabir Nagar, Jalandhar City, Punjab - 144008

PART-B5
ENVIRONMENTAL AUDIT REPORT

8. SOLID WASTE MANAGEMENT

8.1: Solid Waste Management System:

Different types of wastes generated inside the college premises are represented in the below block diagram.



8.2: Process of Waste Management:

The college management practiced some methods to treat the waste generated and Table-7 shows the process of treating the solid waste generated inside the college campus.

Table-8: Process of Waste Management

| S. No. | Waste Type | Waste Treatment |
|--|--------------------------------|---|
| Bio-Degradable Waste Management | | |
| 1. | Food and Vegetable Waste | Collected & used by Mali's for composting yard |
| 2. | Garden Wastes and Plant Leaves | Daily collected and dumped in a yard for composting |
| 3. | Paper Waste | Collected and stored in a separate place for recycling at sister institute (HMV College, Jalandhar) |
| Non-Bio-Degradable Waste Management | | |
| 4. | Plastics | Mostly Banned in the college campus |
| 5. | Construction Wastes | Mostly used by their own construction |
| 6. | Metals | Construction metals or from any other sources are stored in a separate place |
| 7. | Transport Oil + Tyres | Transport oils not covered in DAVIET scope; as it is being taken by the service authority Vehicle tyres are stored in a separate place and sale to 3 rd party |
| 8. | E-Waste Management | Collected and stored in a separate place. |

8.3: Waste Management Policy:

DAV Institute of Engineering & Technology, Jalandhar

“Waste Management Policy”

Contents

1. Introduction
 2. Policy Statement
 3. Policy Objectives
 4. Organization and Management
 5. Action Plan
 6. Glossary
-

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 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.

- **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 contact agreements.
- 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.

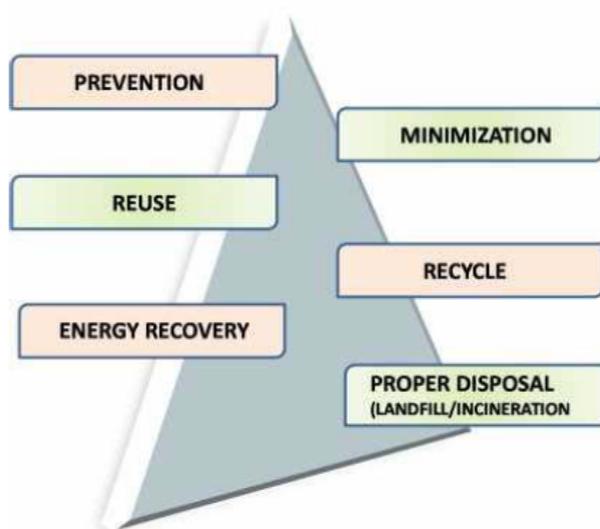


Fig. 1. Waste Hierarchy list in order of preference from the most favorable (top) to the least (bottom).

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.



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



Garbage daily collected using manually driven rehris within DAVIET Campus



Dry Garbage daily collected using manually driven rehris near composting plant within DAVIET Campus



Dry Garbage (Garden waste) used in the composting plant for preparation of the Compost for the use in the Institute lawn and gardens

Construction Wastes



Construction waste is stored near parking sheds for recycling in the construction activities

Related Video link:-

<https://www.youtube.com/watch?v=BwtVpS7vHb0>

(Part 1, 5 and 6)

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



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

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

Kablr 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 Del

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. Assts. (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)

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

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

Non-Bio-Degradable waste: Plastics Bottles Cushing and disposal machines installed under Smart City Jalandhar Mission



Note cam lite
Latitude : 31.3447668°
Longitude : 75.556954°
Date : 04/21/2022 10:08 am
Note : DAVIET JALANDHAR

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

Nº 003056

0181-2200126, 2207650, 2200232
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

www.davietjal.org

Dated..... 09/9/15

Ref. No. DAVIET/ 2015-16 / 718

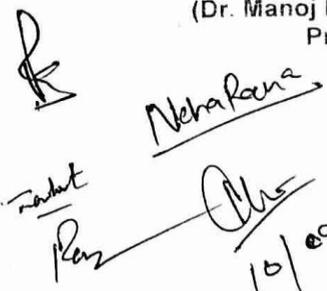
Office-Order

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.


(Dr. Manoj Kumar)
Principal



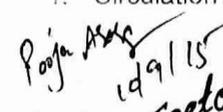
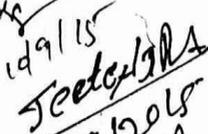

10/9/15

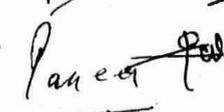

Neharika
10/09/15

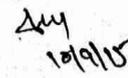

Kumar
10/9/15

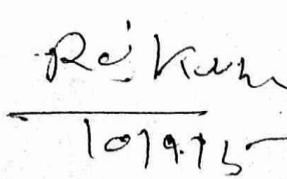
Copy to:

- 1. Circulation amongst all staff members



Pooja
10/9/15

Seeta
10/9/2015

Vikram
10/9/15

Preet
10/9/15

Rajal
10/9/15

Arun
10/9/15

Reetika
10/9/15

Reetika
10/9/15

Reetika

Reetika

A SYNOPSIS OF
GREEN AUDIT REPORT

PART-B7

ENVIRONMENTAL AUDIT REPORT

9. ANALYSIS OF E-WASTE MANAGEMENT

9.1: Identified E-Waste in the College Campus:

| E-Waste – Electrical | E-Waste – IT & Communication |
|--|--|
| <ul style="list-style-type: none">• Motors and Starters• Fans• Lamps and Luminaries• Electrical Drives• Heater Coils• Broken/Fired Cables• Air Conditioning System• Power Distribution Panels• Electronic Music Instruments• Electronic GYM Equipment's• Electronic Attendance System• Analog & Digital Measuring Instruments | <ul style="list-style-type: none">• Copier/Printers & Fax Machines• Power Stripes & Power Supplies• UPS/Servo Stabilizers/Inverters• Batteries• Wi-fi-Modems, Routers, Toggle• Network Cables, Switches, Hubs• Phone, Intercom & PBX• Audit & Video Equipment's/Remote Controls, Projectors• Printed Circuits Boards• Barcode/QR scanners |

9.2: E-Waste Management Committee:

| S. No | Name and Department | Responsibility |
|--------------|---|-----------------------|
| 1. | Principal | Chairperson |
| 2. | HOD(ECE) | Coordinator |
| 3. | HOD(CSE) | Member |
| 4. | Assistant Professors (ECE/CSE Department) | Member |
| 5. | Assistant Professors (Electrical/Civil Department) | Member |
| 6. | EO (Estate Officer) | Member |
| 7. | Sr. Assistant (General Administration) | Member |
| 8. | Senior Assistant (IT/CSE Services/Department Network Maintenance) | Member |
| 9. | Incharge Store (Administrative Member) | Member |

9.3: E-Waste Policy:

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.

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 form 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 years 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/ Pledium 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 Nlainframe, 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 Bakeries, 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.

E-Waste Process and Important points

All departments will condemns/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/ Network Maintenance 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.

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

Annexure “B”

| Sr. No | Name & Address of the facility | Type of Facility | Capacity | Contact Person With | Mobile No | E-mail ID | E Waste authorization | Valid up To | Remarks |
|--------|--|------------------|----------|---|------------|-----------|---|-------------|---------|
| 1 | Ms KJ. Recycler, (Recycling facility) C-38, Sanjay Gandhi Nagar, Industrial Area, Jalandhar City, Punjab | Recycler | 2 TPD | Sh. Pritpal Singh Chawla (Partner) | 9814060756 | | Vide no. 25590-92 dated 24.11.202 0 | 20.11.2026 | |

A SYNOPSIS OF
GREEN AUDIT REPORT

PART-B

ENVIRONMENTAL AUDIT REPORT

10. DISPOSAL OF BIOMEDICAL WASTE

10.1. Disposal of biomedical waste



DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

Kablr 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/ 1711

Dated : 15/01/2021

The CEO (Smart City),
Jalandhar.

Sub: Request for installing Napkin Vending Machine.

Dear Sir,

DAV Institute of Engineering & Technology, Jalandhar (DAVIET) is a flagship institution of DAV College Managing Committee, New Delhi (DAVCMC). DAVCMC is the largest NGO of our country in the field of education, having more than 800 schools & colleges across the country. DAVIET is a premier institution of Northern India providing quality education in Engineering, Business Administration, Hotel Management & Tourism related Undergraduate & Postgraduate courses. DAVIET is a co-education institution. Our students are serving in the various capacities in Government/Public Sector/Private Sector undertakings. National Assessment & Accreditation Council (NAAC) of India has awarded "A" grade which certifies the quality of our services to the nation.

There is a requirement of following items for the cause of female students in our institute.

- | | | |
|----|---------------------------------|--------|
| 1. | Sanitary Napkin Vending Machine | 06 pcs |
| 2. | Incinerators | 06 pcs |

You are requested to get the machines installed in our institute.

Thanking you,

Yours sincerely,

(Dr. Manoj Kumar)
Principal

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

Ph. : 0181-2207650, 2200232, 2343400

Toll Free : 1800-180-0128

Sanitary Napkin Vending Machine

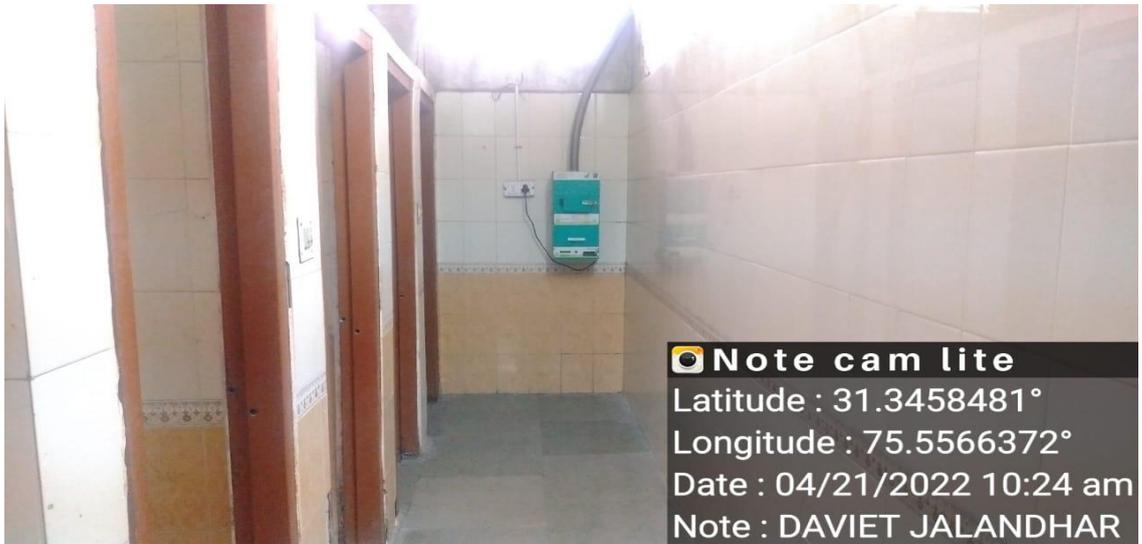


Sanitary Napkin Vending Machine installed in the academic area (core block washroom)



Sanitary Napkin Vending Machine installed in the Girl hostel washroom

Incinerator (used for disposal of biomedical waste)



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

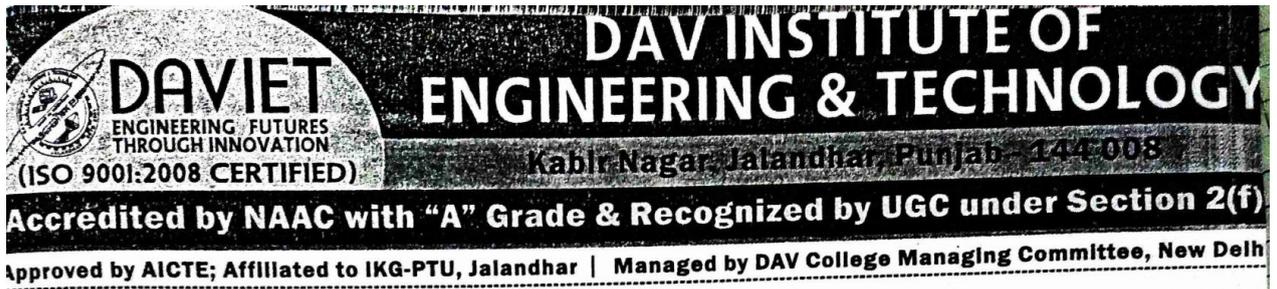


Incinerator (used for disposal of biomedical waste) in the in the Girl hostel washroom



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

Financial support for the Installation of Sanitary Napkin Vending Machine for the Girl students and female staff members



Ref. No. : DAVIET/2019.20/3389

Dated : 7/11/19

Mid South Sikh Sabha
Corodova
TN - 38016

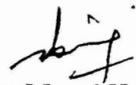
Sub:- Financial Support for the purchase of SMART - MANUAL Sanitary Napkin Vending Machines

Dear Sir(s),

DAV Institute of Engineering & Technology (DAVIET), Jalandhar got established in year 2000 under the aegis of DAV College Managing Committee, New Delhi. The Institute is approved by AICTE and affiliated to IKG Punjab Technical University, Jalandhar. We are a non-profit making organization working with a mission to spread education to masses. We intend to install 02 'SMART - MANUAL Sanitary Napkin Vending Machines' in our girls hostel for the facility and hygiene of the female resident scholars.

The approximate cost of this machine is Rs. 12,500/-. You are requested to extend financial support for purchase of the same. We assure you that every bit this donation shall be optimally utilized and will not be used for any kind of profit making. This facility will be extended to the female resident scholars on no profit basis and maintenance of this machine shall be borne by the Institute.

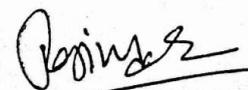
Thanks with regards,


(Dr. Manoj Kumar)
Principal

Copy to:-

1. Mrs. Hapreet K. Bajaj, Assoc. Prof. & Head (CSE) & Convener. Women Cell, DAVIET
2. Sr. Asstt. (A/cs.)

✓ 8/11


13/11/19

Recommendations:

- Except vegetable and food wastes; all other wastes must be measured and monitored on daily basis. Record the values and maintain separate record for each.
- Establish an MOU with 3rd party for handling and proper disposal of the waste and document it.
- Like E-waste; develop separate policies for all type of wastes indicating i) Identification of sources of waste generation, ii) Segregation process, iii) Waste handling (from source to storage to disposal), iv) Recycling-Reuse methods and v) Effective disposal.
- Encourage and educate all the stakeholder to reduce the waste generation and reuse the same.

A SYNOPSIS OF
GREEN AUDIT REPORT

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY
Kabir Nagar, Jalandhar City, Punjab - 144008

PART-C1
GREEN AUDIT REPORT

**11. ROOF TOP SOLAR PV
SYSTEM
(Green Energy Generation)**

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY JALANDHAR

11.1: Roof Top Solar PV System (SPvS):

| Sr. No. | Item |
|---------|--|
| 1. | Energy Conservation Calculations – Solar Street Lights in the campus. |
| 2. | Use of LED street lights/Power efficient equipment's |
| 3. | Energy Conservation Calculations – 500 liters Solar Water Heating System in guest house. |
| 4. | Related Photographs |
| 5. | Sensor based energy conservation system |
| 6. | Related Photographs |

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/- |

Use of LED Street lights /power efficient equipments :

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 : $(28*65*10*30*12)+(08*100*10*30*12)$
= 9432KWH

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

Annual Energy saved using LED street lights : $51840 - 9432 = 42408$ KWH

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

Savings per year : Rs. 270563/-

| Result/Conclusion | |
|-----------------------------|--------------------|
| Energy save per year | 42408 KWH |
| Savings per year | Rs.270563/- |

| 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 |

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/- |

Amount of Power handling by Renewable sources:

- 1. Solar Power Plant of 100 KW (proposed).**
- 2. Solar street lights : 4 x 15 = 60 W**
- 3. Solar water heater system : 7 x 2.5 KW = 17.5 KW**

Institute Sanctioned Load = 938 KW

Percentage of power handled by renewable sources = **12.5 % (including proposed capacity enhancement details)**

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

Solar Street Lights



Solar Street Lights installed in DAVIET, Jalandhar



Solar Street Lights installed in DAVIET, Jalandhar



Solar Street Lights installed in DAVIET, Jalandhar

500 ltr. Solar Heater System in the campus



Solar Heater System in the DAVIET campus



Solar Heater System in the DAVIET campus

11.2: Recommendations:

- Maintain a record for panel cleaning schedule. Ensure that for each cleaning, the power generation must increase.
- Ensure that the solar PV plant has to connect in all the days and the power generation must be fully utilized by the college loads during day time in order to achieve quicker payback for the investment made towards setting up of the plant.

A SYNOPSIS OF
GREEN AUDIT REPORT

PART-C2
GREEN AUDIT REPORT

12. ANALYSIS OF UPS SYSTEM

Total 27 UPS are installed in the institute at different locations. The details are as given below:

Table 12.1 Details of all UPS installed in the Institute at various locations

| S.No. | Rating | Date of Purchase | Place of Installation | Location |
|-------|-------------|--------------------------|--|---|
| 1 | 11KVA | 29/1cccccccccs0/ 2004 | Programming Language Lab | Core Block 1 st Floor |
| 2 | 10KVA | 5/10/2002 | Project lab | Core Block 1 st Floor |
| 3 | 10KVA | 30/05/07 | Computer Network Lab | Core Block 1 st Floor |
| 4 | 10KVA | 11/08/2006 | VLSI Lab | U.G Block Ground Floor |
| 5 | 10KVA | 11/09/06 | AC Lab | U.G Block 1 st Floor |
| 6 | 10KVA | 19/07/07 | Language Lab | P.G Block 1 st Floor |
| 7 | 10KVA | 03/05/2007 | CAD Lab | Mechanical Block 1 st Floor |
| 8 | 10KVA | 28/03/2011 | COE Lab 2nd Floor Knowledge Centre | Knowledge Centre 2nd Floor |
| 9 | 10KVA | 24/08/16 | Center of Ex.(K5) 3rd Floor Knowledge centre | Knowledge centre 3rd Floor |
| 10 | 10KVA | 19/07/07 | PG Computer Lab-11 | P.G Block 1 st Floor |
| 11 | 10KVA | 03-062017 | Library | Knowledge centre |
| 12 | 10KVA | 11-10-2017 | Operating system lab | Core Block 1 st Floor |
| 13 | 6KVA | | NANO LAB | R&D Block G. Floor |
| 14 | 6KVA | 27/08/12 | C.C Lab | Core Block 1 st Floor |
| 15 | 6KVA | 24/08/05 | RDBMS Lab | Core Block 1 st Floor |
| 16 | 6KVA | 3/3/2010 | FCPIT Lab | R&D Block 1 st Floor |
| 17 | 6KVA | 19/06/2006 | Research Lab | |
| 18 | 6KVA | 11/10/2016 | Server Room | Core Block 1 st Floor |
| 19 | 5KVA | 30/05/2007 | CIE Lab Knowledge Centre Basement | Knowledge centre Basement |
| 20 | 3KVA | 3/3/2010 | FCPIT Lab | R&D Block 1 st Floor |
| 21 | 3KVA | 6/9/12 | Geometrics Lab | |
| 22 | 1KVA Online | --- | PG Hostel | Security Room |
| 23 | 1KVA Online | ---- | UG Hostel | Store Room |
| 24 | 1KVA Online | ----- | Principal Office | R&D Block G. Floor |
| 25 | 1KVA Online | ----- | COE | U.G Block 1 st Floor |
| 26 | 1KVA Online | ----- | Dean student | R&D Block Ground Floor |
| 27 | 1KVA Online | ----- | Surveillance lab | R&D Block 3rd Floor |

**A SYNOPSIS OF
GREEN AUDIT REPORT**

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY

Kabir Nagar, Jalandhar City, Punjab - 144008

PART-C3

GREEN AUDIT REPORT

**13. LIST OF MATURED TREES IN THE
COLLEGE CAMPUS (GREEN
COVERAGE)**

13.1: 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- 13.1 and Table 13.2 show the list of matured trees and medicinal plants available inside the college campus.

Table-13.1: 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 |  | CHUKRASIA | 03 | Surinder |

| | | | | | |
|---|-----------------------------------|---|------------------------|----|--|
| 3 | HYOPHORBE LAGENICAILIS |  | BOTTLE PALM | 08 | Surinder, Ram Bahadur |
| 4 | MAGNOLIA CHAMPACA |  | CHAMPA | 08 | Surinder, Ram Bahadur |
| 5 | NEOLAMARCKIA CADAMBA |  | KADAM | 04 | Surinder, |
| 6 | ALSTONIA SCHOLARIS |  | ALOSTONIA | 17 | Surinder, Ram Bahadur, Ram partp |
| 7 | SYZGIUM CUMINI |  | JAMUN | 04 | Surinder, Ram Bahadur, Ram partp, Ravinder |
| 8 | ROSA SINENSES |  | HIBISCUS | 08 | Surinder, Ram Bahadur, Ram partp |

| | | | | | |
|----|--|---|---------------------------|----|---|
| 9 | TABERNAEMONT ANA 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 |
|----|----------------|---|--------------|----|-----------------------|

Activities organized to create greenery and its conservation at college campus is 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.

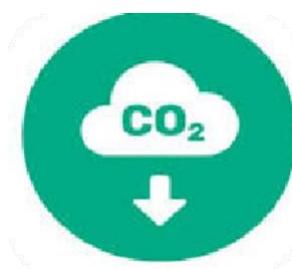
In the current academic session, tree plantation drives were organized and about 100 ornamental and medicinal plants including few rare and exotic beautiful trees were planted in the gardens and other parts of the college campus. To keep the greeneries in the campus, a team of six gardeners regularly 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.



Total No. of Matured Trees available in the college campus is 700+ which contributes for CO₂ reduction of 20.0 Tons/Annum

13.2: 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 |  | Rosemary | 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 enviornments, Controlling 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 |

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



Certificate of Appreciation from AICTE (Green campus initiatives –One Student One Tree Campaign)



Tree Plantation Campaign under Green campus initiatives



Tree Plantation Campaign under Green campus initiatives

A SYNOPSIS OF
GREEN AUDIT REPORT

DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY

Kabir Nagar, Jalandhar City, Punjab - 144008

PART-C4
GREEN AUDIT REPORT

14. LIST OF VEHICLES USED THE COLLEGE
CAMPUS (Transporting Vehicles)

Transporting Vehicles used in the College

The college is committed to green environment not only in the campus; but also to the entire atmosphere. The list of transporting vehicles available in the college campus along with their fuel type and usage are represented in Table-14.1

Table-14.1: List of Transporting Vehicles used in the College

| S. No. | Type of Vehicle | Make, Model & YoM | Fuel Used | No. of Vehicles | Date of FC & Due Date | Non Pollution Certified (Y/N) |
|--------|-----------------|------------------------------|-----------|-----------------|-----------------------|-------------------------------|
| 1. | Car - Innova | Toyota, Nov. 2009 | Diesel | 1 | 27.11.2024 | Yes |
| 2. | Car - Bolero | Volkswagen/ Vento, Nov. 2015 | Petrol | 1 | 03.11.2030 | Yes |

K
9999

FORM 23
(See Rules 48)
Form of Certificate of Registration

Registration No. PB-29-K-9999

Brief Description of Vehicle
Scooter, Fiat/Ambassador/Maruti/Tata/Hyundai Car, Tata Goods Vehicle, Trailer, Motor Cycle with/without gear, Motor Cycle with side car etc.)

Name of the registered owner REGIONAL

Son/Wife/Daughter of DIRECTOR, ENGINEERING

Full Address COLLEGE D.A.V. C.M.C.
(Permanent), S/O DAY 7ET JALANDHAR

Full Address
(Temporary)

Distt. Transport Officer
MOGA (Manjit Singh J.A.)
Signature: (Signature)

Transporting Vehicles used in the College

| DETAILED DESCRIPTION | |
|--|--|
| 1. Class of vehicle | <u>MULTI PURPOSE VEHICLE</u> INNOVA |
| The motor vehicle is | |
| (a) A New Vehicle | <u>NEW</u> |
| (b) Ex-Army Vehicle | |
| (c) Imported Vehicle | |
| (d) Migration from other States | |
| 2. Maker's Name | <u>TOYOTA KIOSSTAR M LTD</u> |
| 3. Type of Body | |
| 4. Month & Year of Manufacture | <u>2009</u> |
| 5. Number of Cylinders | <u>FOUR</u> |
| 6. Chassis Number | <u>MB7113V200717815H/09</u> |
| 7. Engine Number | <u>2KD677132</u> |
| 8. Fuel used in the Engine | <u>DIESEL</u> |
| 9. Horse Power (B.H.P.) | |
| 10. Cubic Capacity | <u>2504</u> |
| 11. Maker's Classification | |
| 12. Wheel-Base | |
| 13. Seating Capacity (including driver) | <u>5+ 7 SEAT in all</u> |
| 14. Unladen Weight | <u>12700 kg</u> |
| 15. Colour or colours of Body, wings and front end | <u>CHAMPA GREEN METALIC</u> |
| Additional Particulars in the case of all Transport Vehicles other than motor cars: | |
| 16. Gross Vehicle Weight | <u>22290 kg</u> |
| (a) As certified by the manufacturer | (kgms.) |
| (b) As registered | (kgms.) |
| 17. Number, Description and Size of Tyres- | |
| (a) Front Axle | |
| (b) Rear Axle | |
| (c) Any other Axle | |
| (d) Tandem Axle | |
| 18. Registered Axle Weight | |
| (a) Front Axle | (kgms.) |
| (b) Rear Axle | (kgms.) |
| (c) Any Other Axle | (kgms.) |
| (d) Tandem Axle | (kgms.) |
| Additional Particulars of alternative of additional trailer or semi-trailers registered with an Articulated Vehicle- | |
| 19. Type of Body | |
| 20. Unladen Weight | <u>1590 kg</u> |
| 21. Number & Description & Size of Tyres on (each) Axle | |

Transporting Vehicles used in the College



UNITED INDIA INSURANCE COMPANY LIMITED

CERTIFICATE OF INSURANCE
PRIVATE CAR PACKAGE POLICY
UIN: IRDAN54SRP0047V01199900
(FORM 51 OF CENTRAL MOTOR VEHICLE RULES 1989)

| | | | | | | | | | | | | | | | | | | | | |
|---|--|------------------|--|------------------------------|------------------------|--|----------------------|-------------|-------------------|--------------------------|--------|-------------------|----------|--------|--------------------------|---------------------|------|-----------------------------|---|------------------|
| Policy No. | 2013003122P100667513 | | Certificate Number | 2013003122P100667513 | | | | | | | | | | | | | | | | |
| Customer Id | 23081906247 | | Issuing Office Address | Code 201300 | | | | | | | | | | | | | | | | |
| Name of the Insured | MS REGIONAL DIRECTOR ENGINEERING COLLEGE DAV CMC | | SYAL HOUSE, LAJPAT NAGAR MARKET, OPPOSITE GYMKHANA CLUB JALANDHAR PUNJAB | | | | | | | | | | | | | | | | | |
| Address of the Insured | C/O DAVIET, KABIR NAGAR 144001 JALANDHAR PUNJAB | | Telephone | (181) 5015475, (181) 5015474 | | | | | | | | | | | | | | | | |
| Business/Occupation | None | Mobile No. - | 9814017555 | | | | | | | | | | | | | | | | | |
| Insured's Declared Value | ₹ 270000 | | | | | | | | | | | | | | | | | | | |
| Period of Insurance | From 00:00 Hrs of 19/04/2022 To Midnight of 18/04/2023 | | | | | | | | | | | | | | | | | | | |
| Particulars of Vehicle Insured | | | | | | | | | | | | | | | | | | | | |
| Registration No. | Vehicle | Trailer (if any) | Obsolete Vehicle | Engine No. | Chassis No. | Make/ Model | Type of Body | Year of Mfg | Cubic Capacity/KW | Seating including driver | | | | | | | | | | |
| | PB - 29 - K - 9999 | | No | 2KD6397188 | MBJ11JV400719381511/09 | TOYOTA / INNOVA (2009 - 2016) 2.5 GX 7 STR BS-IV | MPV | 2009 | 2494 | 7 | | | | | | | | | | |
| Registration Authority | PB29 MOGA | | Geographical Area | | | INDIA | | | | | | | | | | | | | | |
| Amount in words: Eleven thousand two hundred thirty-one rupees only | | | | | | | | | | | | | | | | | | | | |
| Persons or classes of persons entitled to drive | | | | | | | | | | | | | | | | | | | | |
| Any person including Insured provided that a person hold an effective driving licence at the time of accident and is not disqualified from holding or obtaining such a licence. Provided also that the person holding an effective Learner's Licence may also drive the vehicle and such a person satisfies the requirements of Rule 3 of Central Motor Vehicle Rule, 1989. | | | | | | | | | | | | | | | | | | | | |
| Note:- The policy does not cover liability for death, bodily injury or damage as excluded in section 150 (2) (ii) and (iii); (b) and (c) of the Motor Vehicles Act, 1988. | | | | | | | | | | | | | | | | | | | | |
| Limitations as to use | | | | | | | | | | | | | | | | | | | | |
| The policy covers use only under a permit within the meaning of Motor Vehicles Act, 1988 or such a carriage falling under Subsection 3 of Section 66 of the Motor Vehicles Act, 1988. | | | | | | | | | | | | | | | | | | | | |
| The policy does not cover use for: | | | | | | | | | | | | | | | | | | | | |
| a) Hire or Reward | | | | | | | | | | | | | | | | | | | | |
| b) Carriage of Goods (other than samples or personal luggage) | | | | | | | | | | | | | | | | | | | | |
| c) Organized Racing | | | | | | | | | | | | | | | | | | | | |
| d) Pace Making | | | | | | | | | | | | | | | | | | | | |
| e) Speed Testing and Reliability Trails | | | | | | | | | | | | | | | | | | | | |
| f) Use in connection with Motor Trade | | | | | | | | | | | | | | | | | | | | |
| Limits of Liability | | | | | | | | | | | | | | | | | | | | |
| Under Section II-I (i) Death or bodily injury in respect of any one accident; As per Motor Vehicles Act 1988 | | | | | | | | | | | | | | | | | | | | |
| Under Section II-I (ii) Damage to third party property in respect of any one claim or series of claims arising out of one event: ₹ 750000 | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Premium:</td> <td>₹</td> <td>9,517.00</td> </tr> <tr> <td>CGST(9%):</td> <td>₹</td> <td>857.00</td> </tr> <tr> <td>SGST(9%):</td> <td>₹</td> <td>857.00</td> </tr> <tr> <td>Stamp Duty:</td> <td>₹</td> <td>1.00</td> </tr> <tr> <td>Total (Rounded Off):</td> <td>₹</td> <td>11,231.00</td> </tr> </table> | | | | | | Premium: | ₹ | 9,517.00 | CGST(9%): | ₹ | 857.00 | SGST(9%): | ₹ | 857.00 | Stamp Duty: | ₹ | 1.00 | Total (Rounded Off): | ₹ | 11,231.00 |
| Premium: | ₹ | 9,517.00 | | | | | | | | | | | | | | | | | | |
| CGST(9%): | ₹ | 857.00 | | | | | | | | | | | | | | | | | | |
| SGST(9%): | ₹ | 857.00 | | | | | | | | | | | | | | | | | | |
| Stamp Duty: | ₹ | 1.00 | | | | | | | | | | | | | | | | | | |
| Total (Rounded Off): | ₹ | 11,231.00 | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Receipt Number :</td> <td colspan="2">10120130022100689396</td> </tr> <tr> <td>Receipt Date :</td> <td colspan="2">19/04/2022</td> </tr> <tr> <td>DebitNote Number:</td> <td colspan="2"></td> </tr> <tr> <td>Document Date:</td> <td colspan="2"></td> </tr> </table> | | | | | | Receipt Number : | 10120130022100689396 | | Receipt Date : | 19/04/2022 | | DebitNote Number: | | | Document Date: | | | | | |
| Receipt Number : | 10120130022100689396 | | | | | | | | | | | | | | | | | | | |
| Receipt Date : | 19/04/2022 | | | | | | | | | | | | | | | | | | | |
| DebitNote Number: | | | | | | | | | | | | | | | | | | | | |
| Document Date: | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Agency/Broker Code:</td> <td colspan="2">AG10030651</td> </tr> <tr> <td>MONIKA ARORA</td> <td colspan="2"></td> </tr> <tr> <td>Direct Business:</td> <td colspan="2">BAS26749</td> </tr> <tr> <td>Business Associate Code:</td> <td colspan="2">HARBHAJAN LAL ARORA</td> </tr> </table> | | | | | | Agency/Broker Code: | AG10030651 | | MONIKA ARORA | | | Direct Business: | BAS26749 | | Business Associate Code: | HARBHAJAN LAL ARORA | | | | |
| Agency/Broker Code: | AG10030651 | | | | | | | | | | | | | | | | | | | |
| MONIKA ARORA | | | | | | | | | | | | | | | | | | | | |
| Direct Business: | BAS26749 | | | | | | | | | | | | | | | | | | | |
| Business Associate Code: | HARBHAJAN LAL ARORA | | | | | | | | | | | | | | | | | | | |

Subject to IMT Endorsement No.s, terms and conditions printed herein / attached hereto 22,28

I/We hereby certify that the policy to which the certificate relates as well as the certificate of insurance are issued in accordance with provisions of Chapter X & XI of M.V Act, 1988.

For and On behalf of
United India Insurance Co. Ltd.

Mona

Duly Constituted Attorney

Date of Issue: 19/04/2022

This is a system generated document and any manual alteration / correction / overwriting in the document will make it invalid.

Transporting Vehicles used in the College

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Government of Punjab

Date : 22/01/2022
Time : 11:43:59 AM
Validity upto : 21/07/2022



Certificate SL. No. : PB00800170010808
Registration No. : PB29K9999
Date of Registration : 28/Nov/2009
Month & Year of Manufacturing : November-2009
Valid Mobile Number : *****9893
Emission Norms : BHARAT STAGE III/IV
Fuel : DIESEL
PUC Code : PB0080017
GSTIN :
Fees : Rs.100.00(GST as applicable)
MIL observation : No

Handwritten initials: AL

Vehicle Photo with Registration plate
60 mm x 30 mm



| Sr. No. | Pollutant (as applicable) | Units (as applicable) | Emission limits | Measured Value (upto 2 decimal places) |
|-----------------------|------------------------------|-----------------------|-----------------|--|
| 1 | 2 | 3 | 4 | 5 |
| Idling Emissions | Carbon Monoxide (CO) | percentage (%) | | |
| | Hydrocarbon, (THC/HC) | ppm | | |
| High idling emissions | CO | percentage (%) | | |
| | RPM | RPM | 2500 ± 200 | |
| | Lambda | - | 1 ± 0.03 | |
| Smoke Density | Light absorption coefficient | 1/metre | 1.62 | 1.1 |

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

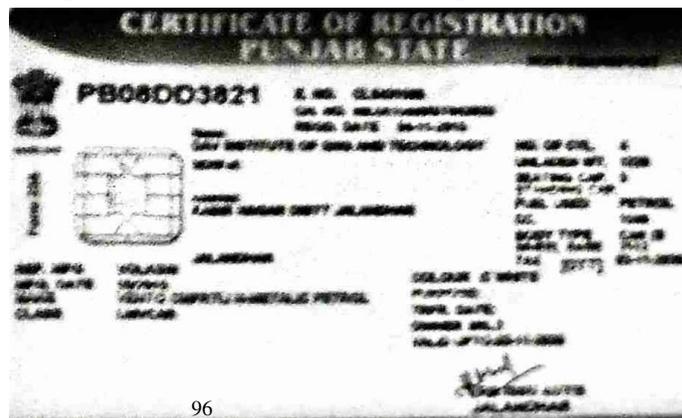
Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC Operator
60mm x 20 mm

Handwritten signature and stamp of PUC Operator.

NOV POLLUTION
99151-27128
98036-27128

Transporting Vehicles used in the College



Form 59

[See rules 115 (2)]

Pollution Under Control CertificateAuthorised By :
Government of PunjabDate : 30/03/2022
Time : 10:58:33 AM
Validity upto : 29/09/2022 ✓

| | | |
|-------------------------------|---|-----------------------------|
| Certificate SL. No. | : | PB00801110010429 |
| Registration No. | : | PB08DD3821 |
| Date of Registration | : | 04/Nov/2015 |
| Month & Year of Manufacturing | : | October-2015 |
| Valid Mobile Number | : | *****0996 |
| Emission Norms | : | BHARAT STAGE III |
| Fuel | : | PETROL |
| PUC Code | : | PB0080111 |
| GSTIN | : | |
| Fees | : | Rs.80.00(GST as applicable) |
| MIL observation | : | No |

Vehicle Photo with Registration plate
60 mm x 30 mm

| Sr. No. | Pollutant (as applicable) | Units (as applicable) | Emission limits | Measured Value (upto 2 decimal places) |
|-----------------------|------------------------------|-----------------------|-----------------|--|
| 1 | 2 | 3 | 4 | 5 |
| Idling Emissions | Carbon Monoxide (CO) | percentage (%) | 0.5 | 0.23 |
| | Hydrocarbon, (THC/HC) | ppm | 750.0 | 72.0 |
| High idling emissions | CO | percentage (%) | 0.0 | 0.0 |
| | RPM | RPM | 2500 ± 200 | 0.0 |
| | Lambda | - | 1 ± 0.03 | 0.0 |
| Smoke Density | Light absorption coefficient | 1/metre | | |

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
60mm x 20 mm

Insurance (Car/ Scooter/Motorcycle) FREE (1st/2nd/3rd) & Paid Services of MARUTI SUZUKI ARENA Cars MARUTI SUZUKI GENUINE PARTS (MSC)
ਏਂਸੂਰੈਂਸ (ਕਾਰ / ਸਕੂਟਰ / ਮੋਟਰਸਾਈਕਲ)
For more details and latest discount offers & updates, Like us on FACEBOOK at /punjabmotorgarage

Details of the Transporting Vehicles used in the College

Progress Reports

A. Water Management System (Proper record kereping of maintaiance, service and AMC)

| Domestic - AMC - 2022 - 23 | | | | Signature of Indentor | Signature of Plumber | Signature of In-charge | Date |
|----------------------------|----------|-----------------------------|--|--|----------------------|------------------------|------|
| S.N | Date | Indenter | Location | Type of Service | | | |
| 1 | 28-03-22 | Surinder | UG Boys Hostel | all Pt Service | | | |
| 2 | 29-03-22 | Subhinder | PG Boys Hostel | all filter closed all Pt service and all filter closed | | | |
| 3 | 30-03-22 | warden | Girls Hostel | all filter closed and all service | | | |
| 4 | 31-03-22 | | M-S Block - Auditorium P Residence + Sports arena | all filter closed and all service | | | |
| 5 | 02-04-22 | Jagdeep Singh | Auditorium | Leakage problem | | | |
| 6 | 06-05-22 | Vinay Kumar | UG Boys Hostel B floor | leakage problem | | | |
| 7 | 06-05-22 | Subhinder | PG Hostel D-floor | leakage problem | | | |
| 8 | 12-05-22 | Surinder Kumar | UG Boys Hostel G floor + C floor | 2 pipe Blocked + 1 SV Blocked | | | |
| 9 | 21-05-22 | Surinder Kumar | UG Boy's Hostel - A floor | Leakage Problem | | | |
| 10 | 21-05-22 | Surinder Kumar | UG Boy's Hostel - D floor | Leakage Problem | | | |
| 11 | 03-06-22 | Rajesh - Lab. Technician | water cooler near Sports office | Spunchused | | | |

Water Management System record (maintaiance, services and AMC)

| Date | Location | Date | Type of Service | Date |
|----------|--------------------|------------|--|------|
| 15.04.22 | Kalyan Core Block | F.P. | 2 Pump + 1 SV 3 Span + 3 membrane Pipe + Elbow | 18 |
| 15.04.22 | Rabul Core Block | S.P. | 3 Span + 2 membrane Pipe + Elbow | 18 |
| 19.04.22 | Sahyadri PG Hostel | Mess | 1 Pump + 1 SV 3 Span + 2 Bottel 2 membrane Pipe + Elbow | 18 |
| 19.04.22 | Axwind M.S Block | F.P. (1) | 3 Span + 1 SV + 2 membrane Pipe + Elbow | 18 |
| 19.04.22 | Axwind M.S Block | F.P. (2) | 1 Pump + 2 membrane 1 SV + 3 Span Pipe Elbow | 18 |
| 16.05.22 | Purifier | Core Block | G.F. Pipe + Elbow | 18 |
| 29.05.22 | Pandey | R.B.D | G.F. 1 SV + Pipe + 2 FR 2 membrane + 2 Pump welding | 18 |
| 01.06.22 | Suzinda | UG Hostel | Mess (1) 2 Pump + 3 Membrane 2 SV + 3 Span SMV.1 Pipe elbow | 18 |
| 01.06.22 | Suzinda | UG Hostel | Mess (2) 2 Pump + 3 membrane 2 SV + 3 Span + Pipe Elbow | 18 |
| 10.06.22 | Suzinda | UG Hostel | Mess (2) 6 membrane + Pipe | 18 |

Water Management System record (maintainance, services and AMC)

| S. no. | Date | Inspector | Location | floor Date Page | Type of Service | Sig. of Inspector | Sig. of Plumber | Content attached Partly | Go |
|--------------------------------------|----------|-------------|------------------------|-----------------------|---|----------------------|--------------------|-------------------------------|----|
| 035 | 26-11-21 | Suresh | UG Boys Hostel MESS | MESS | 3 Spun filter, 1 Pump 2 Membrane + Pipe changed | @hs | P | VS | VS |
| 036 | 05-12-21 | Pawan Kumar | PG Block | G.F. Floor | 1 SMV + 1 SV valve | @hs | P | VS | VS |
| 137 | 17-12-21 | Raj Kumar | R & D Block | G.F. | Pipe changed | @hs | P | VS | VS |
| 138 | 17-12-21 | Rajinder K. | R & D Block | F.F. | Membrane changed | @hs | P | VS | VS |
| 139 | 26-12-21 | Pushpa | Core Block | G.F. | 2 P.R. + Pipe changed 1 SV valve | @hs | P | VS | VS |
| <u>Commercial Type - AMC-2022-23</u> | | | | | | | | | |
| 140 | 10-01-22 | Raj Kumar | R & D B | G.F. | 2 Pump + 3 Membrane 3 Spun + 2 SV + Pipe Elbows | @hs | | | VS |
| 141 | 10-01-22 | Rajinder K. | R & D | F.F. | 1 Pump + SV. 2 3 Spun + 3 Membrane F.R. 3 P.s + Pipes and Elbows | @hs | | | VS |
| 142 | 10-01-22 | Pamela | R & D | S.F. | 1 Pump + 3 Spun 1 SV + 2 Membrane F.R. 3 P.s + Pipe + Elbows | @hs | | | VS |
| 143 | 11-01-22 | Sukhjinder | PG Boys Hostel | MESS | 1 Pump + 1 SV | @hs | | | VS |
| 144 | 13-01-22 | Arun | MS Block | F.F. | 1 Membrane Housing 1 Membrane | @hs | | | VS |
| 145 | 15-01-22 | Pushpa | Core Block | G.F. | 3 Spun + 3 Membrane Pipe + Elbows | @hs | | | VS |

Water Management System record (maintaince, services and AMC)

c. Follow up (1)

Minutes of meeting held on 5th May 2022 in the Office of Dr Ashok Kumar – Associate Professor (Chemistry) & NSS Nodal officer with members of “Environment Sustainability and Management cell.”

Following faculty/staff members were present in the meeting:

- Dr Ashok Kumar – Associate Professor (Chemistry) & NSS Nodal officer
- Mr M.S. Bedi, - Assistant Professor (CE)
- Dr M K Kaushik - Assistant Professor (CE)
- Dr Bhupender Singh - Assistant Professor (Chemistry)
- Mr. Viney Kumar, Estate Officer

The following points were discussed in the meeting:-

1. All Mali and Sweeper may be deputed for waste collection and segregation.
2. Training of the above deputed staff for composting shall be provided by Dr M.K. Kaushik.
3. Empty paint containers may be used as waste baskets for proper segregation of waste in the institute.
4. Sign boards to be displayed at specific places.
5. Cleaning of composting areas will be done after discussion with HDFC representatives.
6. Sh. Viney Kumar, Estate Officer, will supervise the proper functioning of segregation and composting yard.
7. A crushing machine for plastic bottles is already installed in the campus that shall be taken care of by Dr. Bhupender Singh, and the polythene bags, wrappers etc. shall also be collected and segregated and sold to the same vendor to whom the bottle crush is being supplied.
8. Energy audit shall be done by the Electrical Engineering department of our institute.
9. Mr. M.S. Bedi shall prepare Performa for internal Green and Environment audit and submit the same by 11th May 2022.

Dr Ashok Kumar
Associate Professor (Chemistry)
&
NSS Nodal officer
Convenor- Environment and Sustainability Cell

Copy to: IQAC Cell for information.

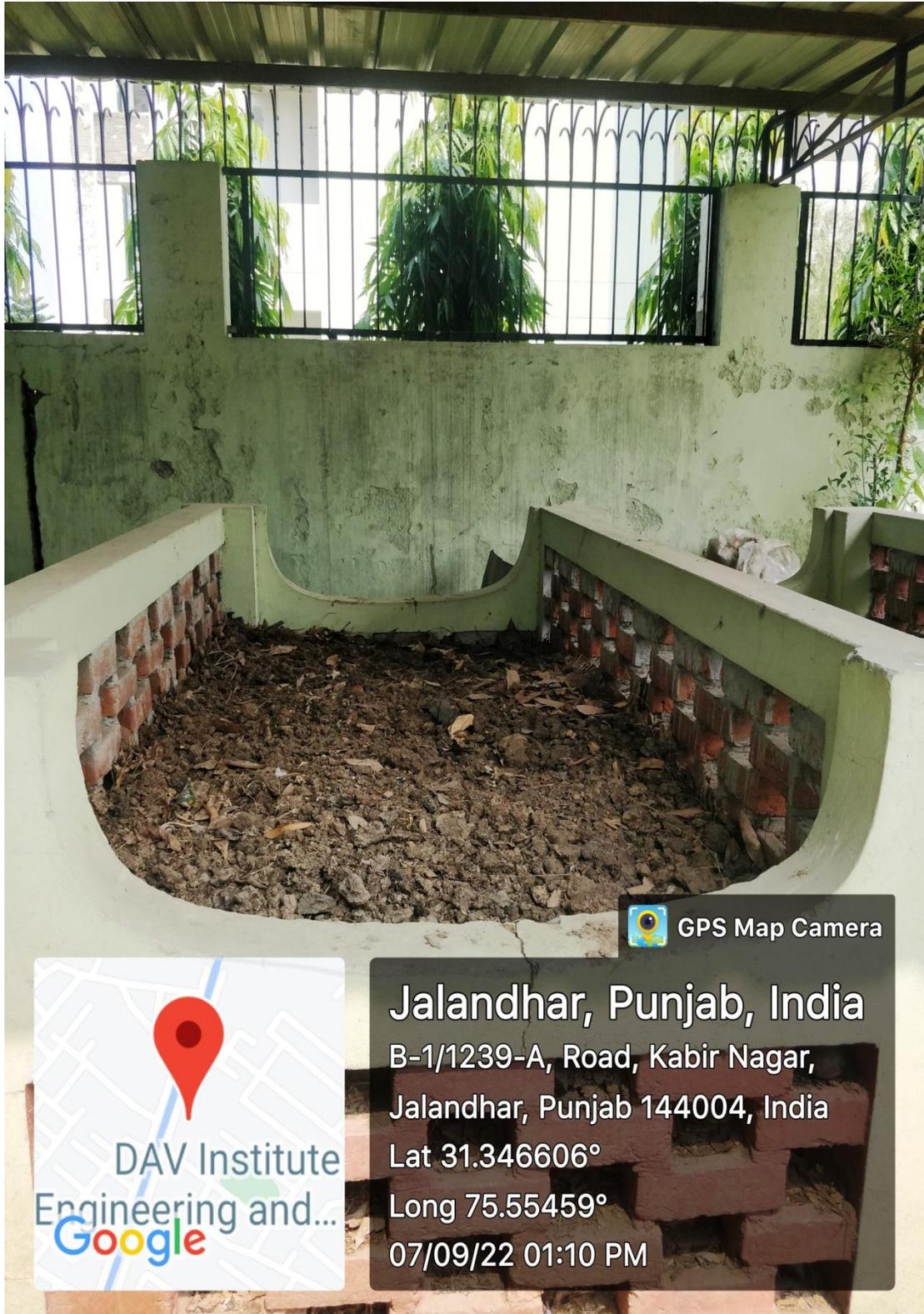
Follow up (2)



Dry Garbage (Garden waste) used in the composting plant for preparation of the Compost (Sept. 2022)



Dry Garbage (Garden waste) used in the composting plant for preparation of the Compost (Pit No. 2 - Sept. 2022)



Dry Garbage (Garden waste) used in the composting plant for preparation of the Compost (Pit No. 8 - Sept. 2022)

Follow up (3)



Banana peel collected from ARYA Samaj Madhir, VikramPura, Jalandhar as residue of the Prasad distributed after Hawn ceremony were also used in the composting pits for preparation of manure (17th Sept. 2022).

3. CLEAN AND GREEN CAMPUS INITIATIVES

Swachh Bharat Abhiyan- or Clean India mission - is a nation -wide campaign which strives for cleanliness and hygiene.

DAVIET College held several events to make our youth aware not only about the cleanliness and hygiene but also about the environmental degradation and its sustainability simultaneously.

3.1 One Student – One Tree initiative

NSS wing of our institute has organised a Tree Plantation Drive under “One Student – One Tree initiative” of AICTE in Burlton Park, on 8th August 2019 for a Clean and Green Environment. 1100 Samplings of different plants are planted to support green belt around institute.

Office Circular related to Tree Plantation drive in The DAVIET Campus



No 014855

0181-2343400, 2207650
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

www.davietjal.org

Ref. No. DAVIET/ 2017-18/ 5366

Circular

Dated: 08/08/17

Save the Trees, Save the Earth.
We are the Guardians of Nature's Birth.

Human society is embedded in an environment. Environment directs our life and determines our proper growth & development. There is a balanced natural cycle exists between environment and lives of human beings, plants and animals. All the human actions in this modern world directly impact the whole ecosystem. Therefore, it is our responsibility to save our environment and earth and make the possibility of healthy & happy life here.

For any nation or state, it is required that 35% land area should be covered by way of thick forest; whereas, in the entire state of Punjab, the forest area is limited to only 3.5% area of the total land. It becomes the responsibility of all the citizens of the nation to contribute towards society by way of planting trees which provide uninterrupted sources of oxygen for all the human beings.

I wish to share with all the faculty/staff & students that this Institute till date has planted 364 trees and more than 160 Ashoka Sprites in the campus right from its inception. The NSS Unit of the Institute has decided to plant 130+ trees tomorrow, the 9th August, 2017 from 11 AM onwards. The NGO "PAHAL" and "Rotary Club", Jalandhar, has collaborated with our Institute in this tree plantation drive. The college is maintaining log book of all the trees with their details and history in respect of all the trees planted till date and we wish to record names of the persons who are going to plant these trees tomorrow (9/8/2017).

Therefore, we invite the 'Expression of Interest' from all the interested faculty/staff & students, who wish to plant and adopt tree tomorrow (9/8/2017). They should give their names to Dr. M.K. Kaushik, Asstt. Prof. (CE) or Dr. P.S. Mann, NSS Officer.

[Signature]
Dr. Manoj Kumar
 Principal

Copy to:-

1. All HoDs – to circulate amongst all members of the faculty/staff & students of their respective departments
2. Dr. M.K. Kaushik, Asstt. Prof. (Civil Engg.) and Dr. P.S. Mann, NSS Officer
3. Sr. Asssts. (Admn. & A/cs.) – to circulate amongst all members of the non-teaching and class-iv employees of their respective sections
4. Establishment Section
5. Library
6. Hostel Wardens
7. Information Corner and all departmental Notice Boards

[Handwritten signatures and initials are present over the list items]



Tree Plantation drive in the Burlton Park and DAVIET Campus under One Student One Tree Campaign



Tree Plantation drive in the Burlton Park and DAVIET Campus under One Student One Tree Campaign

3.2 Swachh Survekshan

NSS Wing of the Institute conducted a cleanliness drive at Burlton Park with Municipal Corporation, Jalandhar (MCJ) under Swachh Survekshan 2019 on 30.03.2019. Around 100 NSS volunteers of different departments took part in this exercise to make a stretch around the Park garbage free.



Cleanliness drive at Burlton Park with Municipal Corporation, Jalandhar (MCJ) under Swachh Survekshan on 30.03.2019



Cleanliness drive at Burlton Park with Municipal Corporation, Jalandhar (MCJ) under Swachh Survekshan on 30.03.2019

3.3 “Keep Clean, Go Green” Drive under ‘Mission Fateh’

NSS wing of DAV Institute of Engg. & Technology (DAVIET) in collaboration with American Society of Civil Engineers (ASCE) – Student Chapter, DAVIET has started “Keep Clean, Go Green” Drive under ‘Mission Fateh’ in which Herbal and Medicinal properties based Trees are to be planted in and around the campus in Aug. 2020



DAVIET organized “Keep Clean, Go Green” Drive under ‘Mission Fateh’ in Aug. 2020

3.4 GO GREEN DRIVE AT DAVIET CAMPUS

A **Tree Plantation Drive** was organized by NSS unit of **DAVIET**. This drive is in association with **NGO Pahal and Rotary Club Jalandhar**. The drive was aimed at creating awareness among students about the importance of having a clean and green environment.

Mr. Lakhbir Singh, President PAHAL and **Mr. Irwindeep Singh, President Rotary Club Jalandhar** along with **Dr. Manoj Kumar, Principal DAVIET** planted **more than 130 trees** of different varieties in the DAVIET campus.



Tree Plantation Drive organized with NGO “Pahal” in DAVIET in Aug., 2018

Mr. Lakhbir Singh, President PAHAL highlighted that trees help clean the environment and aid human beings in remaining healthy. He also highlighted the fact that in a hot country like India trees become all the more important as they provide shade and fruit. **Mr. Irwindeep Singh, President Rotary Club**, also applauded the effort of the Institution to have a tree plantation drive and highlighted that trees help conserve soil and reduce ground water pollution.

The drive was attended by Ms. Sonia Chawla, Dean Academics, Dr. Jagjeet Malhotra, Dean Students Affairs, Dr. Sudhir Sharma, Dean RIC, Dr. Neeru Malhotra, Head Department of Electronics and Communication Engineering, Dr. Dinesh, Head Department of Information Technology, Dr. Kanchan L Singh, Head Department of Applied Sciences, Mr. Gaurav Dhuria, Head Department of Mechanical Engineering, Mr. Parveen Kakkar, Dr. PS Mann (NSS Officer), Dr M K Kaushik, Faculty and staff of the Institution.

3.5 “MINI FOREST” DEVELOPED WITH THE HERBAL AND MEDICINAL PROPERTIES BASED TREES IN THE CAMPUS

DAV Institute of Engg. & Technology (DAVIET) developed a “Mini Forest” in which Herbal and Medicinal properties based Trees are planted in the campus in July, 2022

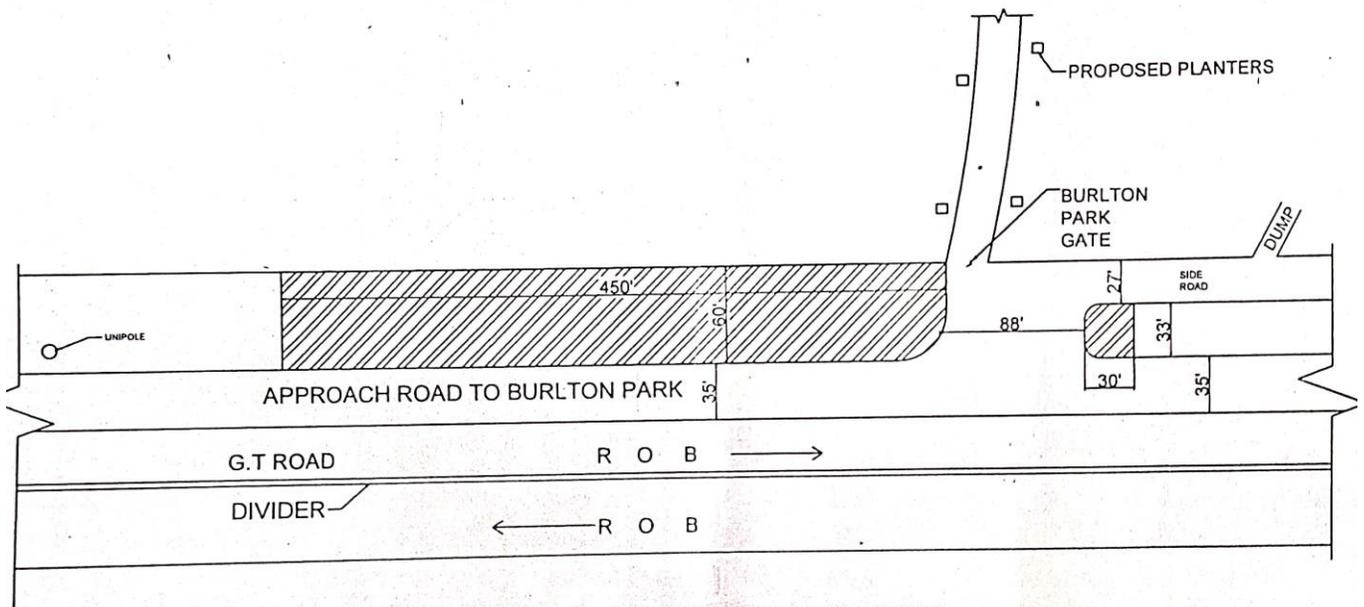


“Mini Forest” with the Herbal and Medicinal properties based Trees developed in DAVIET, Jalandhar

4. BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES

Renovation of the historic Baltron Park Gardens located at the entrance was also done by the institute staff members, Mali's and by the UG, PG students of the institute without any financial support from Municipal Cooperation, Jalandhar and Govt. of Punjab.

Many existing gardens located in institute's front **Burlton Park** are also maintained by the environmental society of DAVIET, Jalandhar in addition to the plantation on the divider of the main road from **Swami Vivekananda Chowk** to **DAV College flyover Chowk (Mahatma Hans Raj Marg)**. Extension programs were also organized to create environment awareness and conservation of biodiversity amongst the students and public by the members of this team.



 PROPOSED AREA FOR GREEN BELT

Proposed Area for the Green Belt Development



Tree Plantation drive in the Burlton Park under One Student One Tree Campaign – more than 1000 tree plants were planted in the Burlton park and in the Proposed area for Green Belt Development (adjoining Burlton Park outer boundary wall side)



Developed area of the Green Belt adjoining Burlton Park outer boundary wall side



Developed area of the Green Belt adjoining Burlton Park outer boundary wall side

ਨਗਰ ਨਿਗਮ, ਜਲੰਧਰ

6

ਵੱਲ

ਕਾਰਜਕਾਰੀ ਇੰਜੀਨੀਅਰ
ਨਗਰ ਨਿਗਮ,
ਜਲੰਧਰ।

ਵੱਲ

D.A.V Institute of Engineering & Technology

Kabir Nagar Jalandhar - 14781-01102

ਪੱਤਰ ਨੰ:- 28/CE(ਮਿਤੀ :- 13/12/17)

ਵਿਸ਼ਾ:-

ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਦੇ ਸਬੰਧ ਵਿੱਚ ਦੱਸਿਆ ਜਾਂਦਾ ਹੈ ਕਿ ਮਾਨਯੋਗ ਕਮਿਸ਼ਨਰ ਸਾਹਿਬ ਜੀ ਦੇ ਹੁਕਮ ਮਿਤੀ : 27/11/17 ਰਾਹੀਂ ਤੁਹਾਡੀ ਏਜੰਸੀ ਨੂੰ ਉਪਰੋਕਤ ਜਗ੍ਹਾਂ ਦੀ ਸਾਂਭ-ਸੰਭਾਲ ਜਿਵੇ ਕਿ ਘਾਹ ਬੂਟੇ ਦੀ ਕਾਂਟ-ਛਾਂਟ, ਪਾਣੀ ਦਾ ਪ੍ਰਬੰਧ, ਕੰਧਾਂ ਦੀ ਰਿਪੇਅਰ ਅਤੇ ਰੰਗ ਰੋਗਨ, ਮਲਵਾ ਚੁੱਕਣਾ ਅਤੇ ਜਗ੍ਹਾਂ ਦੀ ਸਾਫ ਸਫਾਈ ਦਾ ਪ੍ਰਬੰਧ ਕਰਨ ਦੀ ਮੰਜੂਰੀ ਦੇ ਦਿੱਤੀ ਹੈ। ਇਸ ਸਬੰਧੀ ਨਗਰ ਨਿਗਮ ਨਾਲ ਇੱਕ ਫਤੇ ਦੇ ਵਿੱਚ-2 ਇਕਰਾਰਨਾਮਾ ਕੀਤਾ ਜਾਵੇ।

ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਦੇ ਸਬੰਧ ਵਿੱਚ ਦੱਸਿਆ ਜਾਂਦਾ ਹੈ ਕਿ ਮਾਨਯੋਗ ਕਮਿਸ਼ਨਰ ਸਾਹਿਬ ਜੀ ਦੇ ਹੁਕਮ ਮਿਤੀ : 27/11/17 ਰਾਹੀਂ ਤੁਹਾਡੀ ਏਜੰਸੀ ਨੂੰ ਉਪਰੋਕਤ ਜਗ੍ਹਾਂ ਦੀ ਸਾਂਭ-ਸੰਭਾਲ ਜਿਵੇ ਕਿ ਘਾਹ ਬੂਟੇ ਦੀ ਕਾਂਟ-ਛਾਂਟ, ਪਾਣੀ ਦਾ ਪ੍ਰਬੰਧ, ਕੰਧਾਂ ਦੀ ਰਿਪੇਅਰ ਅਤੇ ਰੰਗ ਰੋਗਨ, ਮਲਵਾ ਚੁੱਕਣਾ ਅਤੇ ਜਗ੍ਹਾਂ ਦੀ ਸਾਫ ਸਫਾਈ ਦਾ ਪ੍ਰਬੰਧ ਕਰਨ ਦੀ ਮੰਜੂਰੀ ਦੇ ਦਿੱਤੀ ਹੈ। ਇਸ ਸਬੰਧੀ ਨਗਰ ਨਿਗਮ ਨਾਲ ਇੱਕ ਫਤੇ ਦੇ ਵਿੱਚ-2 ਇਕਰਾਰਨਾਮਾ ਕੀਤਾ ਜਾਵੇ।


ਕਾਰਜਕਾਰੀ ਇੰਜੀਨੀਅਰ

Endorsement No. 8770 / 2017-18

Dt: 14/12/2017

Copy to:

1. Dr. Sanjay Goel, Assistant Professor (CE) - With reference to the proposal drafted by him, he is requested to do the needful as desired above.
2. HOD (CE)
3. Estate Officer
4. Sr. Asstt. (Admn. & A/cs.)
5. NSS Officer


(Dr. Manoj Kumar)
Principal

Copy of letter translated to English language

MUNICIPAL CORPORATION,JALANDHAR

From:-
Executive Engineer
Municipal corporation
Jalandhar

TO:-
DAV Institute Of Engineering And Technology
Kabir Nagar,Jalandhar

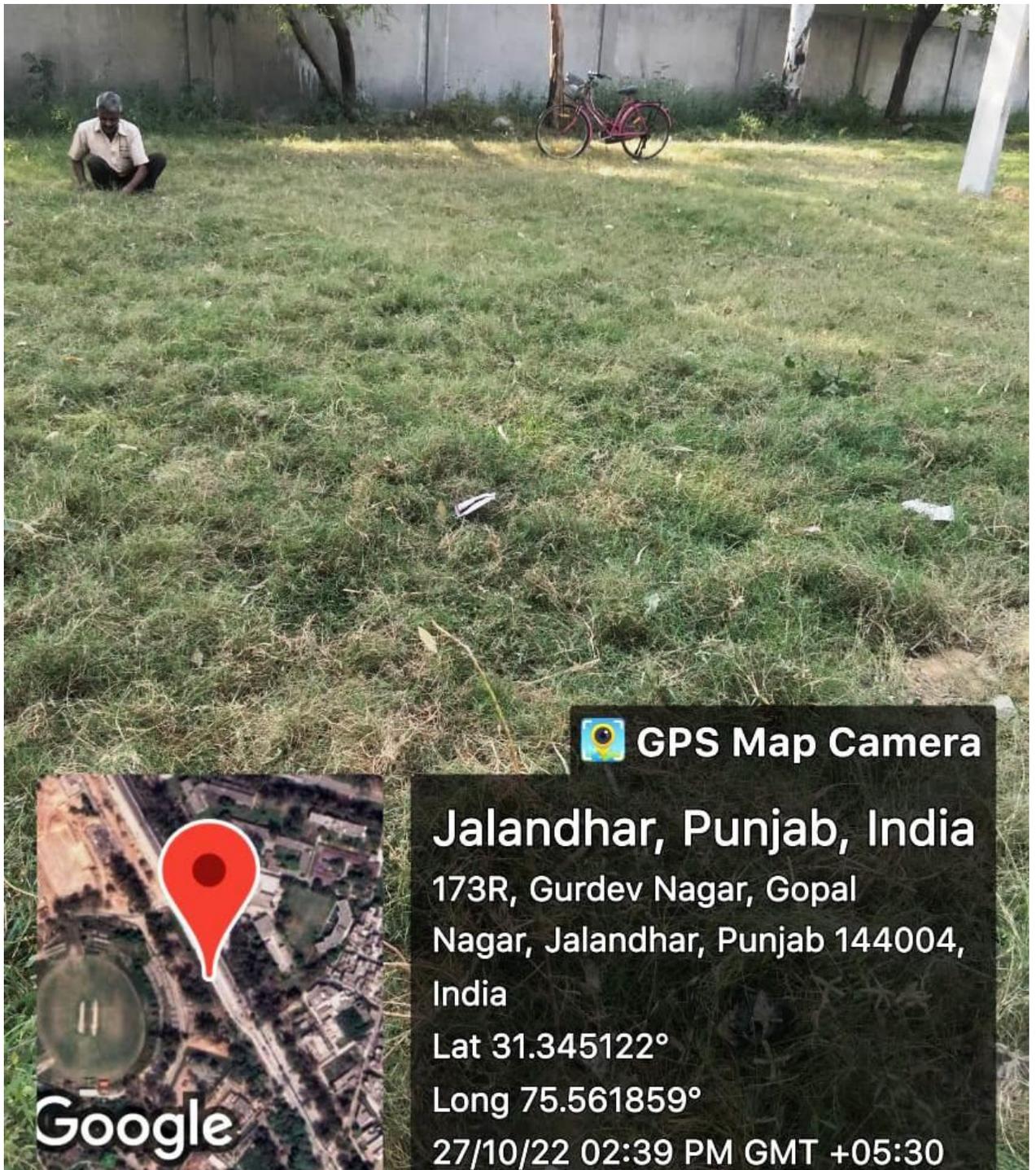
LETTER NO:-728/CC/22

DATE:-13/12/17

SUBJECT:-For maintenance of green belt stretched across Burlton park,
Hockey stadium to GT road flyover.

In relation to the above subject it said that according to the order of the honorable commissioner sir on 27/11/17, the permission to your agency to maintain in the above premises such as grass cutting, water supply, repair and painting of walls, garbage removal and other cleanliness is granted. In regard, an agreement with the municipal corporation.

Executive Engineer



 **GPS Map Camera**

Jalandhar, Punjab, India

173R, Gurdev Nagar, Gopal
Nagar, Jalandhar, Punjab 144004,
India

Lat 31.345122°

Long 75.561859°

27/10/22 02:39 PM GMT +05:30

Google

DAVIET staff members is deployed for maintenance of green belt stretched across Burlton park, Hockey stadium (grass cutting, water supply, repair and painting of walls, garbage removal and other cleanliness operations)



Maintenance of the central verge stretched across GT road flyover as per agreement with the municipal corporation, Jalandhar



Maintenance of the central verge and green belt stretched across GT road flyover as per agreement with the municipal corporation, Jalandhar

SWACHH BHARAT MISSION

“SWACHHATA HI SEWA” & “SAY NO TO PLASTIC” Campaigns organized on 27th Oct 2019 at NUSSI Village

The students of Applied Sciences department visited **Nussi village** to spread awareness among villagers about “**SWACHHATA HI SEWA**” & “**SAY NO TO PLASTIC**” campaigns. During the visit, students awakened the villagers about ill effects of use of plastics on our environment and suggested them the different alternatives of it.



“SAY NO TO PLASTIC” Campaigns organized at NUSSI Village on 27th Oct 2019

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**

Video links

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

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