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LAUREATE INSTITUTE OF PHARMACY
(Approved by PCI & AICTE, New Delhi and Himachal Pradesh Govt.)
"A" Certified NAAC Accredited Institute recognized u/s 2(f) of UGC Act 1956
Affiliated to Himachal Pradesh Technical University, Hamirpur
V.P.O. Kathog, Tehsil Jawalamukhi, Distt. Kangra, H.P. (176031)

Ref. No.....

Date:.....

7.1.6 QnM

Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1.

The institutional environment and energy initiatives are confirmed through the following

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions/awards
5. Beyond the campus environmental promotional activities

Options:

- A. Any 4 or all of the above ✓
- B. Any 3 of the above
- C. Any 2 of the above
- D. Any 1 of the above
- E. None of the above

Dr. M.S. Ashawat

Director cum Principal

Director Cum Principal
Laureate Institute of Pharmacy
Kathog, Tehsil Jawalamukhi
Distt. Kangra (HP)

- Green audit

-

Elion Technologies & Consulting Pvt Ltd

Certificate

This is to certify that Green Audit at Laureate Institute of Pharmacy SH 22, Village and Post Office Kathog, Himachal Pradesh 177101 was carried out for academic year 2022.

College has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified. The efforts taken by the college towards environment and sustainability is highly appreciated and commendable.




Audit Officer

Certificate Number

GA/2022/LIP

VALID TILL

27th April, 2023

GREEN AUDIT REPORT
FOR
Laureate Institute Of Pharmacy
SH 22, Village and Post Office Kathog,
Himachal Pradesh 177101



Carried For
For Year 2022

Carried Out By



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1. INTRODUCTION

Laureate Institute of Pharmacy, (H.P. Tech. Uni Off Campus Research Center) Which has been started in year 2007 with a vision to nurture talent into all round excellence by providing an educational experience which is intellectually inspiring and technologically innovative and produce not just professionals but visionaries of tomorrow. This ISO certified and IAO accredited Institute now running B. Pharmacy programme and Post Graduate courses (M. Pharmacy programme in Pharmaceutics and Pharmaceutical analysis and quality assurance) D. Pharmacy, B.Pharmacy Practice, Ph.D. (H.P.Tech. Uni. Off Campus Research Center). The Institute is duly approved by PCI, AICTE and is affiliated to Himachal Pradesh Technical University, Hamirpur as well as recognised by University Grant Commission, New Delhi; under section 2(f) of UGC Act 1956. The institute is located in untamed rural area, while serving excellent education to the moderate economical strata of the society against all odds of natural calamities present in hilly areas of Himachal Pradesh. Institute also works for social activities under National Service Scheme. Institute has sample infrastructure for the new research dimensions including analysis and assessment of drugs, medicines and herbal formulations quality and has state of art laboratories which are well equipped with sophisticated and other amenities.

Laureate Institute of pharmacy has been recognised as one of the best pharmacy college in the region. Institute of pharmacy emphasizes on 360 development of its students. It aims to to promote research in highly emerging technology and thrust areas of medicines and human healthcare and contribute towards fulfilling's the national objectives in pharmaceutical education and technology.

Our objective is to generate high quality scientific information in the field of Pharmaceutical technology including targeted and smart drug delivery systems. The aim is to develop the various conventional and Novel dosage forms along with their standardization for the benefits of the pharmaceutical industry in the order to provide technology transfer. Our target is to propogative industry based research in the areas of formulation and development of Novel Drug delivery systems and preclinical toxicity studies pharmacokinetics and drug metabolism studies.

Elion Technologies and Consulting Pvt Ltd (Elion) team carried out audit of premises. During the audit Elion team carried out visit of entire campus i.e.



classrooms, library, washrooms, staff rooms, administration department, accounts department and hostels.

Campus Information

The college is offering courses in following fields:

- D. Pharm.
- B. Pharm.
- M. Pharm. (Pharmaceutics, Pharm QA & QC and Pharmacology)
- PhD in Pharmaceutical sciences

Details of the infrastructure of Laureate Institute of Pharmacy is as per below:

Building Name	Number of Floors
Administrative Block cum Girls hostel	5
Academic Block A	5
Academic Block B	5
Canteen	1
Administrative residency	3

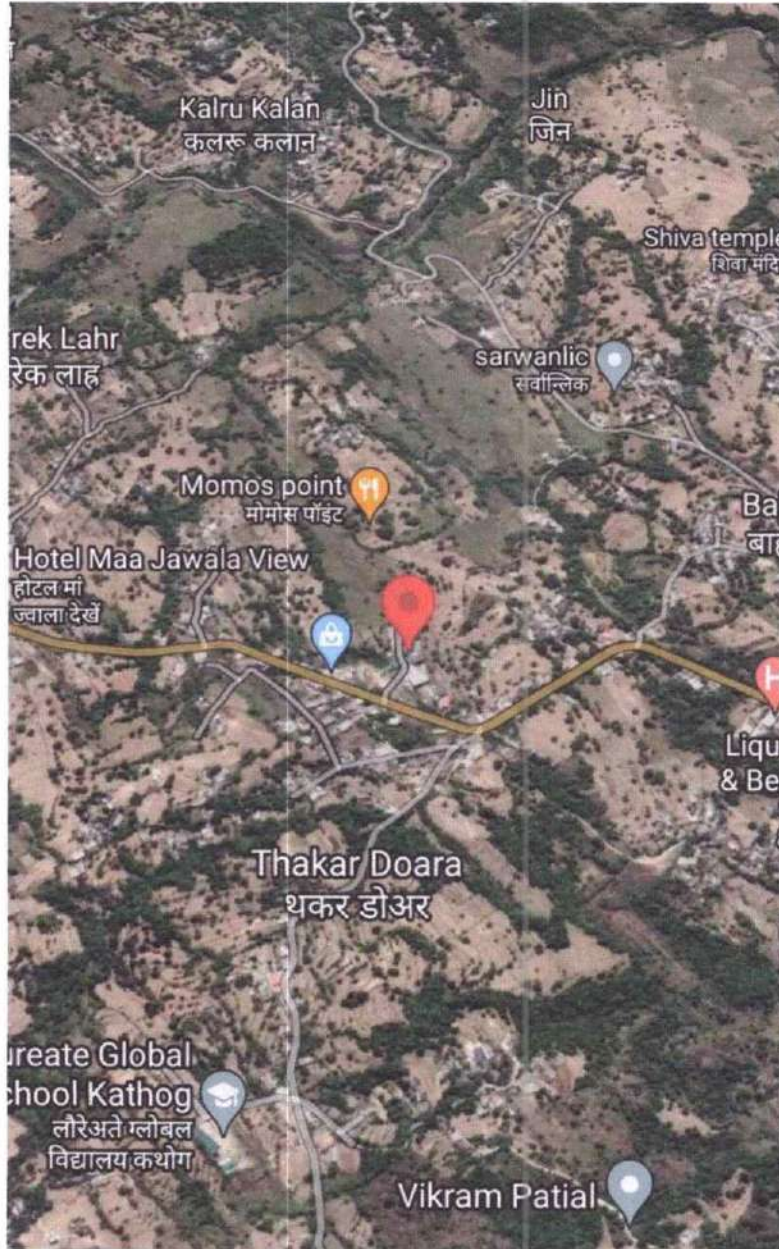


2. ENVIRONMENTAL SETTING

The land use around the campus is mainly mix of residential and commercial area. There are Temples, Hotels and residential area nearby.



Laureate Institute of Pharmacy Campus



Location of Laureate Institute of Pharmacy Campus



3. GREEN AUDIT

For Green Audit following 13 major areas (including their subsections) were covered and compliance/ initiatives under these areas were verified/ validated.

- a) Good Daylight Design and Ventilation
- b) Water Efficiency
- c) Wastewater Management
- d) Indoor Air Quality
- e) Energy Efficiency
- f) On-site Energy Generation
- g) Temperature and Acoustic Control
- h) Paper Waste Management
- i) E-Waste Management
- j) Canteen and Solid Waste Management
- k) Universal Access and Efficient Operation and Maintenance of Building
- l) Green Belt
- m) Green Programs (Green initiatives)

3.1 Good Daylight Design and Ventilation

- a) Corridors are wide with good ceiling height. All the corridors receive good daylight.
- b) Curtains are provided on some of the windows to avoid glare.
- c) Laboratories are provided with exhaust fans to disperse heat, fumes and odours.
- d) Stair cases receive daylight through windows provided at various levels.
- e) Classrooms, Labs and Library have large windows. Windows are kept open to adequate daylight.



Daylight in Labs



Daylight in Classrooms



Main staircase which receives daylight

3.2 Water Efficiency:

- a) Bore well is used for water supply in the campus.
- b) For drinking water coolers are installed at various location in the campus.
- c) Rain water harvesting system is installed in all the blocks.
- d) Water conservation faucets in washrooms were not seen. Installation of such faucets can save water and will help in minimizing the water footprint of the institute.
- e) Normally mops are used for floor cleaning and hose is used for cleaning once a week
- f) Dual flushing system is not provided in the washrooms.
- g) Signage are not provided in washrooms emphasizing water conservation.
- h) Water from air conditioning unit and reject water from water purifiers is reused within the institute.
- i) Water coolers & purifiers are installed at drinking water supply points.



3.3 Wastewater Management:

- a) Sewage Treatment plant is present in the campus area.
- b) The treated water of STP is used in the garden area.

3.4 Indoor Air Quality:

Indoor Air Quality (IAQ) refers to the air quality within and around buildings and structures, as it relates to the health and comfort of building occupants. Some common indoor pollutant are listed as below:

- Molds and other allergens – This may arise from water seeping into the building envelope or skin, plumbing leaks, condensation due to improper ventilation, or from ground moisture penetrating a building part.
- Volatile organic compounds (VOCs) – VOCs are emitted by paints and lacquers, paint strippers, pesticides, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions etc.
- Carbon monoxide – Sources of carbon monoxide are incomplete combustion of fossil fuels.
- Carbon dioxide – Due to human respiration
- Particulate matter – Due to construction and maintenance activities

Major observations under indoor air quality are as below:

- a) In classrooms the mode of ventilation is natural (through windows) and is enhanced by fans.
- b) Green belts have been set up in campus area.
- c) Heating Ventilation and Air Conditioning (HVAC) system does not exist.
- d) Indoor plants are seen in the College. Indoor plants can be plotted not only for the aesthetic appearance but also for health benefits. Refer **Annexure 1** for details.
- e) Exhaust fans are provided only in labs and washroom.
- f) IAQ awareness signage was missing in College. Information on sources, impacts and mitigation of indoor air pollution to be displayed within College for increasing awareness about indoor air pollution.
- g) Indoor Air Quality tests have been carried out. Same needs to be carried out at least once a year.

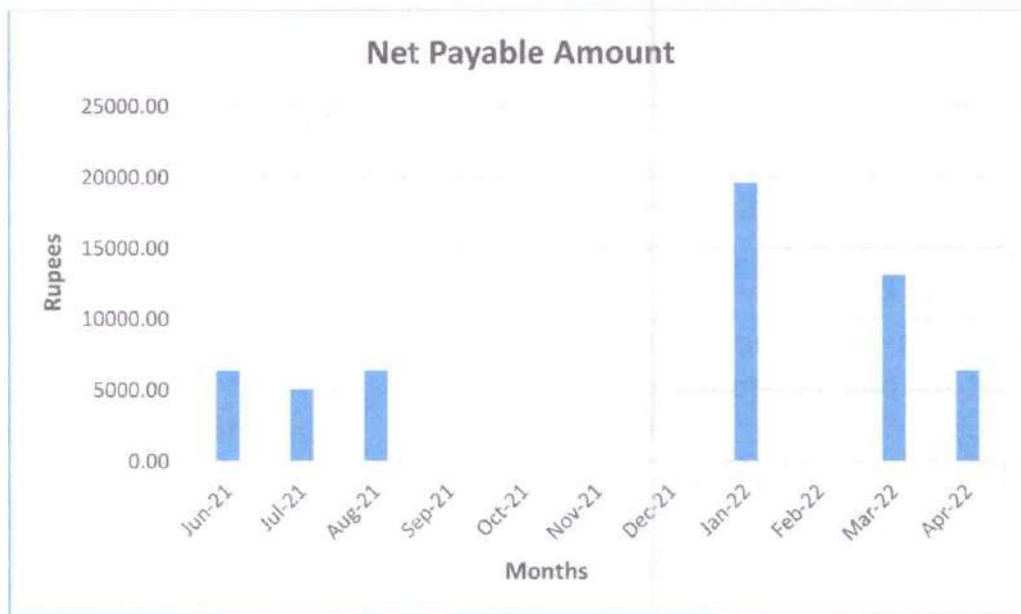


3.5 Energy Efficiency:

Electricity:

Power is supplied by local electricity department. The major electricity consuming equipment installed in the campus are Motors, Desktop, Printer, Fan, Tube light, LED Bulb and Street Lights.

Following is details of energy consumption



It was observed that:

- a) LED tube lights & fans are installed in classrooms and labs. CFL and conventional tube lights are also used. College is in the process of replacing periodically the dysfunctional conventional tube lights with LED lights.
- b) Solar Power Plant of 20 KVA is installed in the campus.
- c) Solar Water Heating System is also available in the college.

3.6 On Site Energy Generation (usage of LPG/ Natural Gas):

- a) LPG is used in canteen for cooking.
- b) Back Up diesel generators are available.
- c) Solar Power plant of capacity 20KVA is provided in the college.



3.7 Temperature and Acoustic Control

- a) White washed rooms & corridors and white/ off-white flooring improve the lighting conditions.
- b) The entire campus has green area.
- c) There is no noise pollution in the campus.



Green Campus



Green Campus

3.8 Paper Waste Management:

Being academic institution, waste paper is the main solid waste generated in the premises. The College has taken steps to minimize and avoid paper usage.



It was observed that:

- a) Prints and photocopies are taken on both sides of the pages to avoid excess paper usage. Rather than photocopy, digitalization (scanning) is practiced.
- b) Faculty and administration staff uses old papers and envelops for internal usages as rough work, file markers, page separators etc.
- c) Paper notices are displayed on the notice boards. Most of the storage is in library and staff room. After couple of years, old submissions and answer papers will be archived and stored in record room.
- d) Internal notices and communications are through E-mail/SMS.
- e) Old Papers are given to vendors for recycling.

3.9 E-Waste Management:

- a) The campus is digitalized to a large extent. This includes classrooms, library, internal mails etc.
- b) E-waste is collected and stored in respective department. Once in a year this e-waste is collected from respective department and given to vendor.

3.10 Solid Waste Management:

It was observed that:

- a) Wet waste and dry waste segregation is practiced in the premises. Separate bins are provided for wet biodegradable and dry recyclable waste.
- b) The waste generated is collected by the municipal corporation and disposed off.

3.11 Universal Access and Efficient Operation and Maintenance of Building:

It was observed that:

- a) College is easily accessible. Staircase is provided for staff and students.
- b) Ramps are provided for specially abled.
- c) Fire extinguishers and fire hydrants are provided in major areas for emergency. They are inspected and serviced regularly.
- d) There is signages for emergency fire exit present. This is of crucial



importance during emergency.

- e) Since the access and staircases are wide and uncluttered, it is possible to have a safe evacuation during emergency.
- f) Fire Safety Training is given to the staff regularly.

3.12 Green belt/ Landscaping:

- a) Large trees are planted in the premises. Plantation also helps maintaining lower temperatures of the area. .
- b) Potted plants are also kept around the campus.
- c) Indoor plants are kept along the corridors and entrance of the building.

3.13 Green Initiatives:

College is regularly celebrating Environment Day, Yoga Day and Earth Day and other Cultural programs.



4. RECOMMENDATIONS/ SUGGESTIONS

4.1 For Improving Energy Consumption:

- a) Every classroom and lab with central switch board can have a diagram linking location of a tube light, fan etc. with corresponding switch. This will ensure that correct fitting is switched on/ off and can save time & unnecessary operation.
- b) Installation of automatic lights with sensors can be considered.
- c) Standard Operation Procedures (SOPs) should be prepared and followed for green purchasing. Equipment with star rating, using eco-friendly materials; with safe disposal policy to be preferred. Policy of returning equipment at the end of life span to the supplier to be preferred.
- d) Conduct energy audit every two or three years and determine the lux levels within College. Energy audit can help in reduction in number of light fittings/ energy usage in the College.
- e) For purchasing new electronic appliances, star rating provided by Bureau of Energy Efficiency (BEE) should be considered. The equipment which has maximum star ratings could be purchased, which will consume less energy, ensure environmental sustainability and also operate at low cost.
- f) Usage of light reflectors is recommended as the reflectors can spread light to relatively large areas.
- g) Notices/ signages can be put up/ displayed near switches and on notice boards, informing students and staff to switch off all electricals when not in use.
- h) If possible, computers should be switched off from main power connections.
- i) Control sensors can help to reduce consumption by automatically dimming lights when people are not around, and keeping blinds open to use natural light & reduce energy consumption.
- j) Raise awareness:
 - Encourage students to help in monitoring energy consumption & implement corrective actions
 - Integrate energy education into classroom learning.



4.2 Water Conservation:

- a) Provide information on water usage and savings to students/ staff through notices, screen savers in computer labs.
- b) Dry sweep or use a sponge broom when possible, instead of using a hose to clean floors, sidewalks, or other hard surfaces.
- c) Minimize/ reduce water usage by installing water saving faucets such as pressmatic taps, tap aerators, jet sprays etc.
- d) Grey water/ sewage recycling system can be installed for flushing toilets. This will reduce the fresh water footprint.
- e) Installation of waterless urinals can be considered to reduce water consumption.
- f) Water balance diagram can be prepared to quantify the water consumption by installing water meters at key points. Based on data gathered, appropriate measures can be taken to reduce the water consumption.

4.3 Paper and other Solid Waste Reduction:

- a) Inventories of all solid waste generated in the premises must be maintained.
- b) Enhance recycling. This can be done by creating a group where students can recycle books, personal clothes and other material to needy students. This can be an initiative under green program.
- c) Standard Operating Procedures (SOP) for Solid and E-waste management and for recycling of waste should be prepared & practiced. The SOP's may include collection, segregation and reuse of different types of wastes, if any (e.g. biodegradable waste for composting). This will help in safe disposal of waste to recycle agencies.
- d) The college can introduce online app, which can be useful for conducting internal exams, assignment/ reports submission. This system can also be used for displaying important notices, timetables.
- e) Paper usage shall be monitored to understand the impact of digitization in the facility.
- f) Training as well as awareness programs should be organized on segregation of biodegradable waste and recycling of waste. Efforts should be taken to inform students about recycling options and signs should be posted on appropriate bins indicating what could be dumped in each bin.











4.4 Others:

- a) Environmental advisory committee could be formed. The discussions/ information sharing among different departments can generate lot of ideas and awareness on green issues.
- b) Since each student uses computer lab, the screen savers can be set up for creating environmental awareness. (Ergonomics, water conservation etc.). Short 30 second pop up can be displayed on computer screens when they are on standby mode. Or wallpapers informing students about environment conservation can be created.
- c) Maintain minutes of meetings of environmental committees; evaluate the effectiveness of various environmental programs conducted by the institutes. Set annual targets for Green Initiatives & monitor them closely. Create 'Green Champions'.
- d) Consider detailed energy audit (energy consumption, thermal emission, visual comfort) and water audit.
- e) Adopt environmentally responsible purchasing policy, and work towards creating and implementing a strategy to reduce environmental impact of its purchasing decision.





ANNEXURE 1 INDOOR GARDENING DETAILS

Indoor plants are commonly used for their aesthetics benefits but they also have vital role reducing airborne pollution. The right choice of plants can be an excellent way of improving indoor air quality and general health. Local landscape contractor can be contacted for supply and rotation of these plants.

Plants	VOC it removes	Indoor source of VOC's	Plant care
 Aloe Vera	Formaldehyde, Trichloroethylene and Benzene	Chemical based cleaners and paints	Easy to grow with enough sunlight
 Bamboo Plant	Formaldehyde, Trichloroethylene and Benzene	Paints, Plastics, Wood products etc.	Thrives under low light conditions as well as easy to maintain
 Chinese Evergreen	Benzene	Paints	Low maintenance plant that prefers low light conditions.
 English Ivy	Formaldehyde, Benzene, Air borne fecal matter particles	Wood, Paper products, Air borne fecal – matter particles from pests	Easy to maintain

 <p>Janet Craig</p>	<p>Formaldehyde, Benzene and Trichloroethylene</p>	<p>Paints, Plastics, Wood products etc.</p>	<p>Medium to low light tolerant plant. Requires little water for growth.</p>
 <p>Golden Pothos or Devils Ivy</p>	<p>Formaldehyde, Cleanses air</p>	<p>Exhaust fumes, carpeting materials, panelling and furniture products made with particle board</p>	<p>Extremely easy to maintain under low to bright light conditions. Fast growing and grows well under Fluorescent light.</p>
 <p>Mass Cane</p>	<p>Formaldehyde, benzene and trichloroethylene</p>	<p>Paints, Plastics, Wood products etc.</p>	<p>Medium to low light tolerant plant. Requires little water for growth.</p>
 <p>Snake plant</p>	<p>Formaldehyde and trichloroethylene</p>	<p>cooking fuels, wood products, facial tissues, personal care products and waxed papers</p>	<p>Drought resistant and Tolerates a variety Of light conditions. Hard to damage or kill.</p>



 Peace Lily	Formaldehyde, benzene and trichloroethylene	Paints, Plastics, Wood products etc.	Relatively easy to maintain. Survives in low light conditions.
 Red-edged Dracaena	Formaldehyde and trichloroethylene	cooking fuels, wood products, facial tissues, personal care products and waxed papers	Drought resistant and Tolerates a variety of light conditions. Hard to damage or kill.
 Spider Plant	Formaldehyde, benzene, carbon monoxide and xylene	cooking fuels, wood products, Printing	Easy to maintain under medium to bright light condition.
 Parlor Palm	Purifies indoor air	-	Easy to maintain



ANNEXURE 2

GREEN AUDIT CHECKLIST

Good Daylight Design

Sr. No.	Design Feature	
1	Broad door opening	<input checked="" type="checkbox"/>
2	Clerestory/ High windows	<input checked="" type="checkbox"/>
3	Openings at the eastern and southern side	<input checked="" type="checkbox"/>
4	Rectangular building so that sunlight can reach all areas	<input checked="" type="checkbox"/>
5	Sunshade	-
6	Double or triple glazing on windows	-
7	Enough illumination	<input checked="" type="checkbox"/>
8	Light coloured fabric curtain or blind for window covering	<input checked="" type="checkbox"/>
9	Operable/ openable windows	<input checked="" type="checkbox"/>
10	Ultraviolet (UV) filtering windows	-
11	Use of exterior louvers to control glare	-
12	Use of glass as facilitator of natural light	<input checked="" type="checkbox"/>
13	Use of insulated and tinted glass to filter heat gain	-

Ventilation

Sr. No.	Design Feature	
1	Downdraft cooling system (a downward flow of air)	-
2	Ceiling height	<input checked="" type="checkbox"/>
3	Self-movement ventilators in the roof	-
4	Wide corridors	<input checked="" type="checkbox"/>
5	Operable windows	<input checked="" type="checkbox"/>
6	Use of exhaust fans	<input checked="" type="checkbox"/>



Temperature and Acoustic Control

Sr. No.	Design Feature	
1	Double roof	-
2	Earth air tunnel (cools air in summer and heat it in winter)	-
3	Green roof	-
4	Mud roof	-
5	Openings at the eastern and southern side	<input checked="" type="checkbox"/>
6	Roof with reflective tile/aluminium/asbestos	-
7	Sand stone cladding outside the walls	<input checked="" type="checkbox"/>
8	Special walls for temperature control (Thick/Double/cavity/fire/composite /green)	-
9	Use of cool roofing material (mineral wool, rock wool, vermiculite, foams, expanded polystyrene, extruded polystyrene etc.)	-
10	Use of daylight design (Building is constructed in such a way that diffused sunlight allows light but not the heat)	<input checked="" type="checkbox"/>
11	Use of insulation material (e.g. autoclaved aerated blocks, hollow blocks, Thermocrete or higher R- value material)	-
12	Use of water bodies/fountain	-
13	Climbing creepers fitted to window in summer	-
14	Lime coating for cool roof	-
15	Retrofitting the existing roofs with cool roof technology	-
16	White wash on the roof	<input checked="" type="checkbox"/>
17	Use of landscaping as sound barrier	-



Water Efficiency & Wastewater Management

Sr. No.	Measures	
1	Aerators to water taps	-
2	Automatic toilet faucets	-
3	Drip irrigation (for plant watering system)	-
4	Dual flush toilet with cistern	-
5	Efficient plumbing system	<input checked="" type="checkbox"/>
6	Sewage treatment plant for sewage recycle	<input checked="" type="checkbox"/>
7	Rainwater harvesting	<input checked="" type="checkbox"/>
8	Regular maintenance for leakage free plumbing system	<input checked="" type="checkbox"/>
9	Use of low flow/flow control water equipment or gadget	-
10	Water free urinals (No flush urinals/Zero flush urinals/Water less urinals/air based flushing system these save water used in toilet)	-

Energy Efficiency and On-site Energy Generation Mechanism

Sr. No.	Measures	
1	Avoid excessive lighting	<input checked="" type="checkbox"/>
2	Computerized monitoring of electrical system	-
3	Integrated energy saving design for natural cooling/heating	<input checked="" type="checkbox"/>
4	On-site energy generation	<input checked="" type="checkbox"/>
5	Photocell occupancy sensor for automatic light control	-
6	Regular maintenance of electrical system	<input checked="" type="checkbox"/>
7	Use of day lighting system	<input checked="" type="checkbox"/>
8	Use of energy efficient equipment	<input checked="" type="checkbox"/>
9	Use of energy saving bulbs (Compact florescent light/LED lights)	<input checked="" type="checkbox"/>
10	Solar panel	<input checked="" type="checkbox"/>



Sustainable Material for Building and Interior

Sr. No.	Strategy adopted	
1	Use of biodegradable material	<input checked="" type="checkbox"/>
2	Use of locally sourced material	<input checked="" type="checkbox"/>
3	Use of material with low embedded energy(i.e. stabilized earth blocks, straw bales, stones, sand stone chips, fly ash)	<input checked="" type="checkbox"/>
4	Use of nontoxic recycled content material and furniture	<input checked="" type="checkbox"/>
5	Use of post-consumer recycled material	<input checked="" type="checkbox"/>
6	Use of salvaged (Discarded or refused) material	<input checked="" type="checkbox"/>
7	Use of material which can recycled at end of useful life	<input checked="" type="checkbox"/>
8	Use of material which is simple to install without dangerous adhesive	<input checked="" type="checkbox"/>



Waste Management

Sr. No.	Measures	
1	Sale of books to its user for minimal charges	-
2	Sale of books to store or other library	-
3	Sale of weeded books to needy students	-
4	Send books and used papers to recycling organization	<input checked="" type="checkbox"/>
5	Avoid use of paper by going digital (Paper)	<input checked="" type="checkbox"/>
6	Lessen the margins while printing	<input checked="" type="checkbox"/>
7	Printing on both sides of paper	<input checked="" type="checkbox"/>
8	Reuse of printed paper/ envelops	<input checked="" type="checkbox"/>
9	Segregation of dry and wet waste	<input checked="" type="checkbox"/>
10	Setting up recycling area/ composting area	<input checked="" type="checkbox"/>
11	Creation of specified junctions for collection of E-waste(E-waste)	-
12	Donation of computers to NGO's to refurbish and give it to needy people	-
13	Hand over to organization or recycler who knows proper disposal system	<input checked="" type="checkbox"/>
14	Implementation of any recycling project or program	-
15	Purchase of electronic products from company's which have after sales service for the disposal of product with buyback policy	<input checked="" type="checkbox"/>
16	Installation of bins to collect garbage	<input checked="" type="checkbox"/>
17	Outsourcing recycling of garbage to agency	-
18	Recreating in to new sustainable products	<input checked="" type="checkbox"/>
19	Use of coloured bins with code to collect garbage	<input checked="" type="checkbox"/>

Environmental Audit

Sr. No.	Type of audit	
1	Energy audit (includes energy consumption, thermal comfort, visual comfort)	<input checked="" type="checkbox"/>
2	Sound/ Noise audit (includes indoor noise level, outdoor noise level)	-
3	Water and waste audit (includes water quality, solid waste generation, solid waste disposal process)	-



Universal Access and Efficient Operation and Maintenance of Building

Sr. No.	Design feature	
1	Easy access to the main entrance of the building	<input checked="" type="checkbox"/>
2	Elevator	<input checked="" type="checkbox"/>
3	Preferred car park spaces for specially abled	<input checked="" type="checkbox"/>
4	Ramp/ stairs with handrails on at least one side	<input checked="" type="checkbox"/>
5	Restrooms (toilets) in common areas	<input checked="" type="checkbox"/>
6	Uniformity in floor level	<input checked="" type="checkbox"/>
7	Audio guidance for specially abled	-
8	Availability of wheel chair	-
9	Braille assistance for specially abled	-
10	Personalized services by staff for differently abled	<input checked="" type="checkbox"/>
11	Visual warning signage in common and exterior areas	-
12	Follow standard procedures for commissioning of electrical/plumbing system	<input checked="" type="checkbox"/>
13	Purchase of standardized and quality material for repair	<input checked="" type="checkbox"/>
14	Regular maintenance of building	<input checked="" type="checkbox"/>
15	Use of chemical free products for cleaning	<input checked="" type="checkbox"/>
16	User awareness program to minimize damage of property	<input checked="" type="checkbox"/>



Green Program

Sr. No.	Green program	
1	Buying recycled material	<input checked="" type="checkbox"/>
2	Creation of "Green Team" in the institution/library	-
3	Green education i.e. to become leader in environmental awareness	-
4	College conduct graduate program by library science/Any other department	<input checked="" type="checkbox"/>
5	Outreach relationships with local groups interested in environmental concern and satisfy their information needs	<input checked="" type="checkbox"/>
6	Providing external membership to small and local libraries (MOU with other colleges, -internal collegiate library loan)	-
7	Recycling beyond books i.e. paper, aluminum, plastic, e-waste	<input checked="" type="checkbox"/>
8	Reduce, Reuse and recycle of the products (At the time of disposal of library material)	<input checked="" type="checkbox"/>
9	Regular purchase of books/ magazines related to sustainability	<input checked="" type="checkbox"/>
10	Selection of material content of which informs and assesses green practices (green computing, energy conservation, organic gardening etc.)	<input checked="" type="checkbox"/>
11	Contribute library information on sustainability resources to a campus publication, blog or website	<input checked="" type="checkbox"/>
12	Creation of topical online resource guide (on sustainability etc.)	<input checked="" type="checkbox"/>
13	Disseminating expert advice about sustainability to other colleges to make their own college greener	-
14	E Publishing reviews of new green resources in the newsletter or news	-
15	Digitization	<input checked="" type="checkbox"/>
16	E-archiving	-
17	E-resources : E books, Online Journals, membership of consortium	-
18	Subscription to databases	-

- Provided P - Planned

Energy audit

Elion Technologies & Consulting Pvt Ltd

Certificate

This is to certify that Energy Audit at Laureate Institute of Pharmacy SH 22, Village and Post Office Kathog, Himachal Pradesh 177101 was carried out for academic year 2022.

It is found that sustainable measure are taken by the college in reduction in energy consumption. The college is taking sustainable measure for reduction of its power consumption.



Audit Officer

VALID TILL

27th April, 2023



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EXECUTIVE SUMMARY

Laureate Institute of Pharmacy, (H.P. Tech. Uni Off Campus Research Center) Which has been started in year 2007 with a vision to nurture talent into all round excellence by providing an educational experience which is intellectually inspiring and technologically innovative and produce not just professionals but visionaries of tomorrow. This ISO certified and IAO accredited Institute now running B. Pharmacy programme and Post Graduate courses (M. Pharmacy programme in Pharmaceutics and Pharmaceutical analysis and quality assurance) D. Pharmacy, B.Pharmacy Practice, Ph.D. (H.P.Tech. Uni. Off Campus Research Center). The Institute is duly approved by PCI, AICTE and is affiliated to Himachal Pradesh Technical University, Hamirpur as well as recognised by University Grant Commission, New Delhi; under section 2(f) of UGC Act 1956. The institute is located in untamed rural area, while serving excellent education to the moderate economical strata of the society against all odds of natural calamities present in hilly areas of Himachal Pradesh. Institute also works for social activities under National Service Scheme. Institute has sample infrastructure for the new research dimensions including analysis and assessment of drugs, medicines and herbal formulations quality and has state of art laboratories which are well equipped with sophisticated and other amenities.

Laureate Institute of pharmacy has been recognised as one of the best pharmacy college in the region. Institute of pharmacy emphasizes on 360 development of its students. It aims to to promote research in highly emerging technology and thrust areas of medicines and human healthcare and contribute towards fulfilling's the national objectives in pharmaceutical education and technology.

Our objective is to generate high quality scientific information in the field of Pharmaceutical technology including targeted and smart drug delivery systems. The aim is to develop the various conventional and Novel dosage forms along with their standardization for the benefits of the pharmaceutical industry in the order to provide technology transfer. Our target is to propagative industry based research in the areas of formulation and development of Novel Drug delivery systems and preclinical toxicity studies pharmacokinetics and drug metabolism studies.

Electricity is supplied by Himachal Pradesh State Electricity Board Limited and for backup powers supply DG Set of 62.5KVA is available.



Also solar power plant of capacity 20KVA is installed in the college.

Elion Technologies and Consulting Pvt Ltd team conducted the Detailed Remote Energy audit of the premises. The energy audit included detailed data collection, analysis of data and identification of specific energy saving proposals.



CHAPTER – I

INTRODUCTION

M/S Laureate Institute of Pharmacy, Himachal Pradesh evinced interest in availing the services of Elion Technologies and Consulting Pvt Ltd for conducting energy audit of their premises.

This report is on the energy audit carried out M/S Laureate Institute of Pharmacy, Himachal Pradesh. The detailed energy audit comprised of the following activities:

- Data collection of power consuming equipment's.
- A brief session on energy management was conducted to seek more inputs from the personnel engaged in operation and maintenance of electro mechanical services.
- Analysis of collected data.
- Discussion with the officials on the identified proposals.
- Discussion and reporting of the findings of energy audit with the Engineers and management staff.

All the identified energy savings proposals have been discussed with the executives concerned before finalizing the projects.

The contents of the report are based solely on the data provided by Laureate Institute of Pharmacy, Himachal Pradesh officials during the energy audit.

The management should implement the suggestions made in the report after verifying requisite safety aspects.

Methodology for Energy Audit:

The following is a list of general procedure and information undertaken during the energy audit:

1. General information of the campus.



2. Baseline energy description.
3. Past energy consumption bills which includes electricity bills.
4. On site data collection.
5. Energy analysis of different sectors.
6. Recommendation of energy conservation measures.

The primary goal of the energy audit was to identify sources and areas of potential energy savings and cost saving throughout the Plant by measures of optimization, replacement, retrofitting, and on the other hand, to also provide recommendations on operational and maintenance practices improvements.



CHAPTER – II **ACKNOWLEDGEMENT**

Elion Technologies and Consulting Pvt Ltd places on record it's thanks to M/S Laureate Institute of Pharmacy, Himachal Pradesh for entrusting the task of conducting energy audit study.

We acknowledge with gratitude the whole hearted support and cooperation extended by all team members while carrying out the study.



CHAPTER – III

PROCESS DESCRIPTION & ENERGY CONSUMPTION DETAILS

PROCESS DESCRIPTION

The main areas of energy consumption as observed during the audit are as follows:

- Motors/Pumps.
- Air Conditioner.
- Lighting.

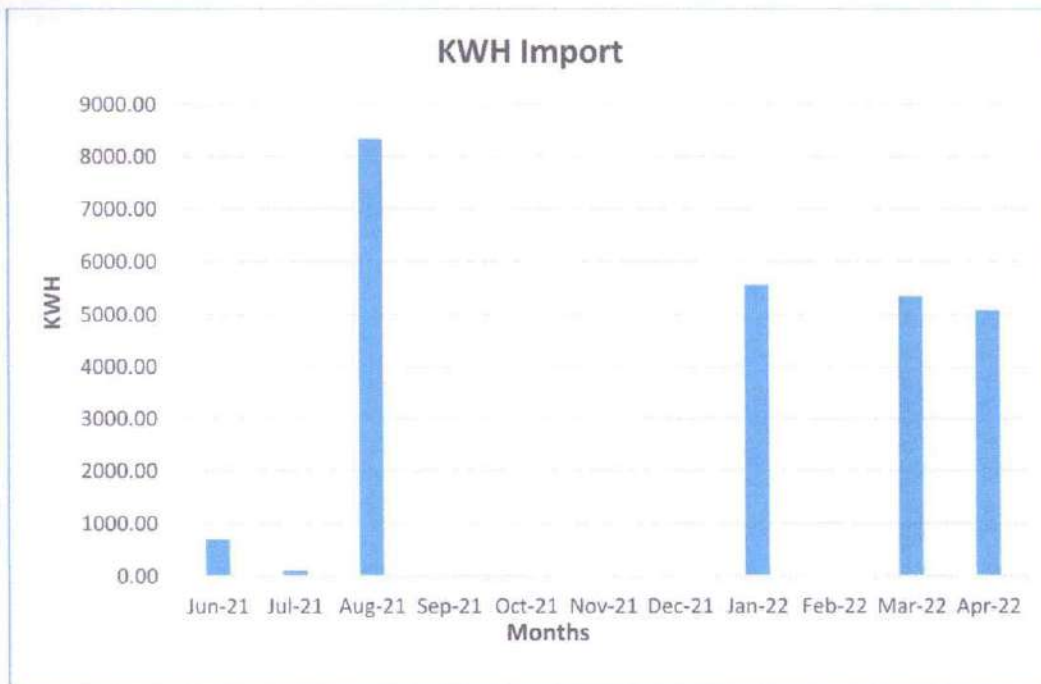
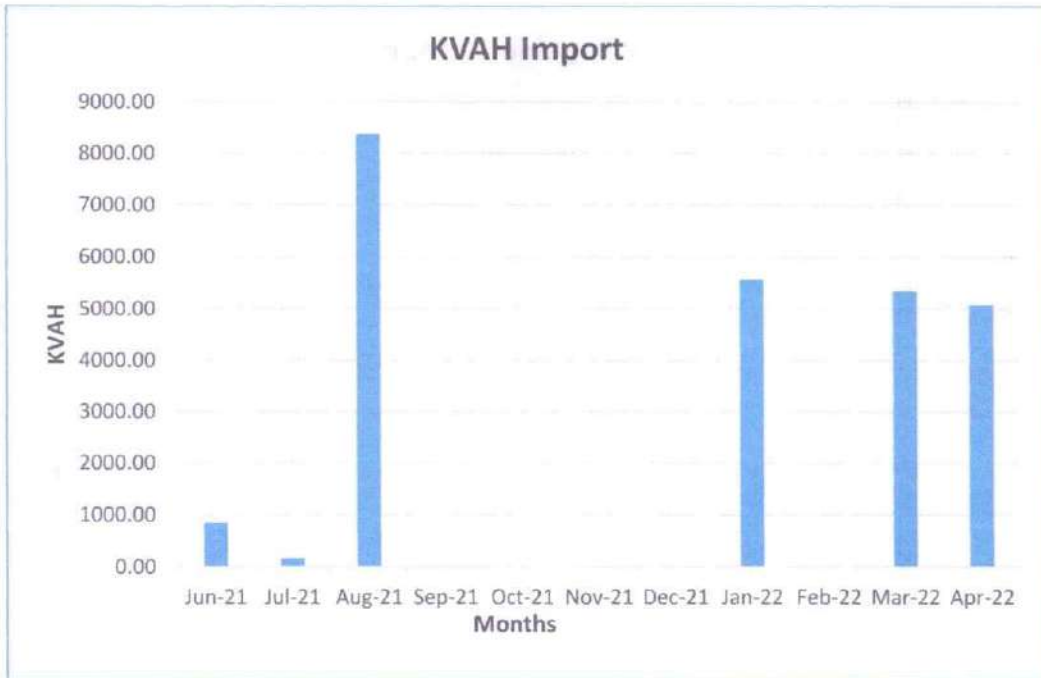
The main sources of energy to meet the required consumptions are as follows:

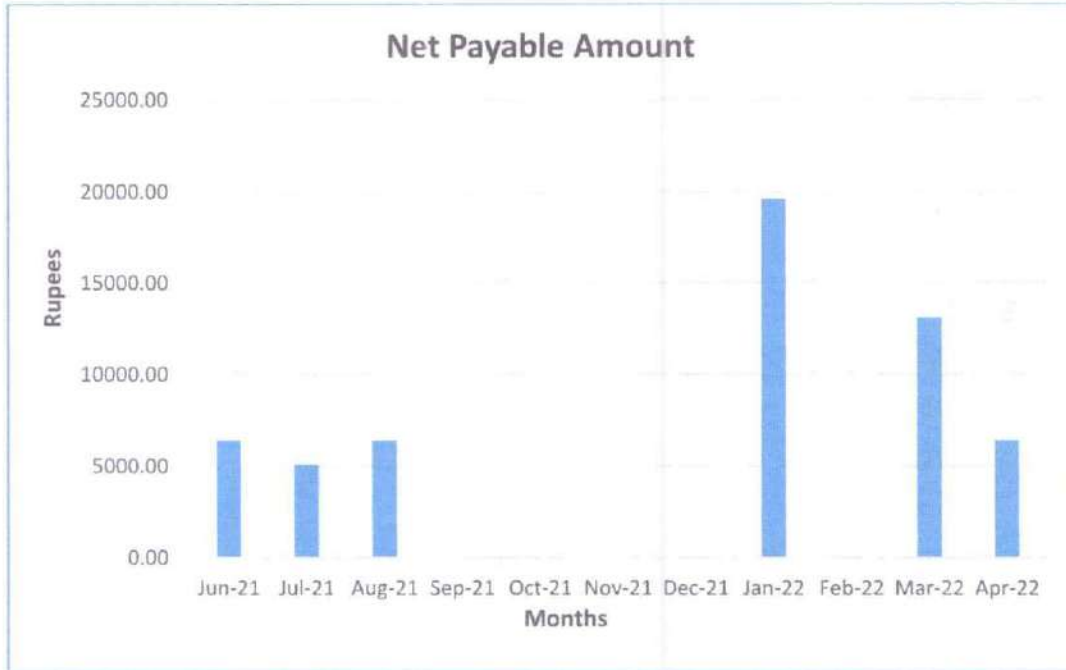
- Electricity supply from Power Distribution Company.
- DG set of 62.5KV.
- Solar Power Plant of 20KVA.

Consumption pattern for energy is given below:

ELECTRICITY CONSUMPTION PATTERN

Months	KVAH Import	KVAH Export	KWH Import	KWH Export	Net Payable Amount
Jun-21	847.00	732.00	701.00	690.00	6410.00
Jul-21	171.00	1003.00	111.00	3025.00	5075.00
Aug-21	8368.00	8399.00	8345.00	8375.00	6410.00
Jan-22	5559.00	5559.00	5557.00	5558.00	19619.00
Mar-22	5346.00	5347.00	5347.00	5347.00	13110.00
Apr-22	5086.00	5085.00	5083.00	5083.00	6415.00







CHAPTER – IV LIGHTING SYSTEM

The inventory of lighting was collected and following is the summary:

Type of Light	Location	Rating	Qty	Number of Hours being turned on
LED Bulb	Corridor of Academic Block-I	10W	20	2
LED Bulb	Class rooms and laboratory of Academic Block-I	10W	50	3
LED Bulb	Class rooms and laboratory of Academic Block-II	10W	48	3
LED Bulb	Outdoor	100W	6	6
LED Bulb	Administrative block cum girls hostel	10W	50	6
LED Bulb	Canteen	10W	10	5

Observation:

Most of the lighting used are LED. CFL and Tube light are being used in certain location. It was informed that college has planned to replace CFL and Tube light in phased manner with replacement of faulty lights with LED.

Recommendation:

- Sticker to SWITCH OFF LIGHT and SAVE ENERGY to be displayed.





CHAPTER – V **MOTORS AND PUMPS**

Pumps are used for pumping of water. The details of the pumps and motors are given below:

PUMPS:

- 5 HP – Submersible Pump 1 (Crompton).
- 5 HP – Submersible Pump 2 (Luby).

Observation:

All pumps and motors are functioning properly and well maintained.

Recommendation:

Proper maintenance and upkeep of pumps and motors to be done.



CHAPTER – VI

AIR CONDITIONING

Split and Window AC's are used in facility for air conditioning. Temperature maintained is 24°C - 26°C which is a good practice. Following is the summary of air conditioners installed:

Type Windows/Split/Package and Location	Capacity in Ton	Whether any star rating available	Set temperature	Running Hours	Whether AC performance is satisfactory Yes/No
Windows computer laboratory-I	1.5 (Two)	3	24	4	Yes
Windows Microbiology laboratory	1.5 (Two)	3	24	3	Yes
Windows conference hall	1.5 (Two)	3	24	2	Yes
Split conference hall	2 (Five)	5	24	2	Yes
Split Principal Chamber	1.5 (one)	3	24	3	Yes
Split vice Principal Chamber	1.5 (one)	3	24	3	Yes
Split Director/MD Chamber	1.5 (one)	5	24	3	Yes
Split computer laboratory-II	1.5 (one)	3	24	3	Yes
Administrative Residency	1.5 (Three)	3	24	3	Yes
Animal House	1.5 (one)	3	25	5	Yes

Observation:

All air conditioners are found to be functioning properly and well maintained.



Recommendation:

- All doors to be kept closed while using the air conditioner and regular annual services of AC should be carried out.
- Replacement of 3 Star ACs with 5 Star Inverter ACs in a phased manner should be implemented.

CONCLUSION

The energy audit conducted at M/S Laureate Institute of Pharmacy, Himachal Pradesh has revealed that campus is doing good work in having sustainable college. In house solar power plant and solar water heating system is installed. The college is sustainable in energy consumption. To further reduce energy consumption, college should implement the recommendation made in report.

Environment audit

Elion Technologies & Consulting Pvt Ltd

Certificate

This is to certify that Environment Audit at Laureate Institute of Pharmacy SH 22, Village and Post Office Kathog, Himachal Pradesh 177101 was carried out for academic year 2022.

Campus has submitted necessary data and credentials for scrutiny. It is found that college is an oxygen tank. The college also had 100 percent rain water of roofs recharging soil and is helping in maintaining in the campus underground water table.

Audit Officer



Certificate Number

ENV /2022/LIP

VALID TILL

27th April, 2023

**ENVIRONMENT AUDIT REPORT
FOR
Laureate Institute Of Pharmacy
SH 22, Village and Post Office Kathog,
Himachal Pradesh 177101**



**Carried For
For Year 2022**

Carried Out By



**ELION TECHNOLOGIES & CONSULTING PVT LTD
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ACKNOWLEDGEMENT

Elion Technologies and Consulting Pvt Ltd thanks the management of Laureate Institute of Pharmacy, Himachal Pradesh for assigning this important work of Environmental Audit. We appreciate the co-operation to our team for completion of study.

For giving us necessary inputs to carry out this very vital exercise of Environment Audit. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.



CONCEPT

The term 'Environmental audit' means differently to different people. Terms like 'assessment', 'survey' and 'review' are also used to describe similar activities. Furthermore, some organizations believe that an 'environmental audit' addresses only environmental matters, whereas others use the term to mean an audit of health, safety and environment-related matters. Although there is no universal definition of Environmental Audit, many leading companies/institutions follow the basic philosophy and approach summarized by the broad definition adopted by the International Chambers of Commerce (ICC) in its publication of Environmental Auditing (1989).

The ICC defines Environmental Auditing as:

"A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects."

The European Commission, in its proposed regulation on environmental auditing, has also adopted the ICC definition of Environmental Audit.



INTRODUCTION

A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues.

Environmental Management Systems (EMS) is very popular in the industrial sector, but the general belief is that EMS is something pertaining to industries only. Other parts of the world have started adopting compatible environmental management systems either voluntarily or for promoting standards by external certification. International environmental standards do not suit the existing Indian educational system.

A very simple indigenized system has been devised to monitor the environmental performance of educational institutions. It comes with a series of questions to be answered on a regular basis. Environmental conditions may be monitored from angles that are relevant to Indian requirements, without stress on legal issues or compliance. This innovative scheme is user- friendly and totally voluntary. The environmental monitoring system helps the institution to set environmental examples for the community and to educate young learners. It can be adapted to urban and / or rural situations.



OVERVIEW OF INSTITUTE

Laureate Institute of Pharmacy, (H.P. Tech. Uni Off Campus Research Center) Which has been started in year 2007 with a vision to nurture talent into all round excellence by providing an educational experience which is intellectually inspiring and technologically innovative and produce not just professionals but visionaries of tomorrow. This ISO certified and IAO accredited Institute now running B. Pharmacy programme and Post Graduate courses (M. Pharmacy programme in Pharmaceutics and Pharmaceutical analysis and quality assurance) D. Pharmacy, B.Pharmacy Practice, Ph.D. (H.P.Tech. Uni. Off Campus Research Center). The Institute is duly approved by PCI, AICTE and is affiliated to Himachal Pradesh Technical University, Hamirpur as well as recognised by University Grant Commission, New Delhi; under section 2(f) of UGC Act 1956. The institute is located in untamed rural area, while serving excellent education to the moderate economical strata of the society against all odds of natural calamities present in hilly areas of Himachal Pradesh. Institute also works for social activities under National Service Scheme. Institute has sample infrastructure for the new research dimensions including analysis and assessment of drugs, medicines and herbal formulations quality and has state of art laboratories which are well equipped with sophisticated and other amenities.

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Elion Technologies and Consulting Pvt Ltd (Elion) team carried out the remote audit of premises. During the audit Elion team carried out virtual visit of entire campus i.e. classrooms, library, washrooms, staff rooms, administration



department, accounts department and hostels.

Campus Information

The college is offering courses in following fields:

- D. Pharm.
- B. Pharm.
- M. Pharm. (Pharmaceutics, Pharm QA & QC and Pharmacology)
- PhD in Pharmaceutical sciences

Details of the infrastructure of Laureate Institute of Pharmacy is as per below:

Building Name	Number of Floors
Administrative Block cum Girls hostel	5
Academic Block A	5
Academic Block B	5
Canteen	1
Administrative residency	3



AUDIT OBJECTIVES

The broad aims/ benefits of the eco-auditing system would be –

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Reduction in resource use
- Financial savings through a reduction in resource use
- Curriculum enrichment through practical experience
- Development of ownership, personal and social responsibility for the university campus and its environment
- Enhancement of university profile
- Developing an environmental ethic and value systems in young people



EXECUTIVE SUMMARY

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance.

This environmental audit of institute is for NACC affiliation; QS Program and doing their bid towards environmental protection and environmental awareness at local and global front. Audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. A questionnaire is used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.



AREA OF IMPROVEMENTS

- Environment Policy shall be adopted by the institute.
- Air Quality monitoring Programme should be implemented and Indoor air Quality Tests Shall be carried out yearly.
- Electrical/Electronic Equipments when not in use should be switched off and should not be on standby modes.



ENVIRONMENTAL AUDIT - QUESTIONARE

The areas of eco/environmental/green auditing to be followed/practiced by participating institutions:

- I. Waste Minimization and Recycling
- II. Greening
- III. Energy Conservation
- IV. Water Conservation
- V. Clean Air
- VI. Animal Welfare
- VII. Environmental Legislative
- VIII. General Practices

Dose any Environmental Audit conducted earlier?

No, Environment Audit is not conducted earlier.

What is the total permanent population of the Institute?

	Male	Female	Total
Students	460	196	656
Teachers	21	20	41
Non Teaching Staff	22	09	31
Sub Total	503	225	728
Approximate Number of Visitors (Per day)			30
What is the total number of working days of your campus in a year?			265

Where is the campus located?

The campus is Located near the Ramnil Dham, Kathog Tehsil Jawalamukhi.

**Which of the following are available in your institute?**

1 Garden area	Yes
2 Playground	Yes
3 Kitchen	Yes
4 Toilets	Yes
5 Garbage Or Waste StoreYard	Yes (Garbage Bins)
6 Laboratory	Yes
7 Canteen	Yes
8 Hostel Facility(numbers)	Yes (Two)
9 Guest House	Yes

Which of the following are found near your institute?

1 Municipal dump yard	No
2 Garbage heap	3 Km. far at Jawalamukhi
3 Public convenience	No
4 Sewer line	No
5 Stagnant water	No
6 Open drainage	No
7 Industry – (Mention the type)	3 Km. from college at Jawalamukhi
8 Bus / Railway station	20 Km. from college 3 Km. from college at Jawalamukhi
9 Market / Shopping complex / Public halls	Jawalamukhi

**I WASTE MINIMIZATION AND RECYCLING**

1.	Does your institute generate any waste? If so, what are they?	Yes Kitchen and Toilets wastes. Biodegradable waste
2.	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	300 Kg/Month Biodegradable waste
3.	How is the waste generated in the institute managed? By 1 Composting 2 Recycling 3 Reusing 4 Others(specify)	Sewerage Treatment Plant
4.	Do you use recycled paper in institute?	Yes
5.	Do you use reused paper in institute?	Yes
6.	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	By Spreading the messages that do not burn the paper instead give it to the recycling industry.
7.	Can you achieve zero garbage in your institute? If yes, how?	No



II GREENING THE CAMPUS

1.	Is there a garden in your institute?	Yes
2.	Do students spend time in the garden?	Yes
3.	Total number of Plants in Campus	1126
4.	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	Mango, Amla, Neem and orange Plants
5.	Is the university campus have any Horticulture Department	No
	Number of Staff working in Horticulture Department	NA
6.	Number of Tree Plantation Drives organized by School per annum.(If Any)	Two
7.	Number of Trees Planted in Last FY.	500
	Survival Rate	70%
8.	Plant Distribution Program for Students and Community	Yes in every conference, seminar and institutional function plants were distributed, also distributed to the students and Community.
9.	Plant Ownership Program	-



III ENERGY CONSERVATION

1.	List ten ways that you use energy in your institute. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.	1. Solar electricity 2. Solar water heater
2.	Are there any energy saving methods employed in your institute? If yes, please specify. If no, suggest some	1. Minimized the use of bulbs 2. Replaced the bulbs from the CFL and LED Lamps
3.	How many CFL/LED bulbs has your institute Installed?	450 approximately
4.	Are any alternative energy sources employed / installed in your institute? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.	1. Solar energy a. Solar electricity b. Solar water heater
5.	Do you run "switch off" drills at institute?	Yes
6.	Are your computers and other equipment's put on power-saving mode?	Yes
7.	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes	Yes for 6 hours



most of the time? If yes, how many hours?	
---	--

IV WATER CONSERVATION

1. List four uses of water in your institute	1. Laboratory purpose 2. Drinking & Cooking in canteen 3. Irrigation for Garden 4. Washing & Cleaning
2. How does your institute store water? Are there any water saving techniques followed in your institute?	1. PVC water storage tank 2. Underground water storage tank Water saving techniques: Rain water harvesting.
3. If there is water wastage, specify why and How can the wastage be prevented / stopped?	No water wastage is there in campus
4. Locate the point of entry of water and point of exit of waste water in your institute. Entry- Exit-	Entry-Through borewell by pipeline to storage. Exit- Through closed sewerage pipe line to STP (Sewerage Treatment Plant)



5.	Write down four ways that could reduce the amount of water used in your institute	<ol style="list-style-type: none"> 1. By installing low flush toilets 2. Use of hands & not the hose to water plants. 3. Water the plants in morning 4. More plantations by considering planting drought tolerant plant.
6.	Record water use from the institute water meter for six months (record at the same time of each day). At the end of the period, compile a table to show how many litres of water have been used.	<p>5000 litres/Day</p> <p>150000 litres/month</p>
7.	Does your institute harvest rain water?	Yes
8.	Is there any water recycling System.	No

V CLEAN AIR

1.	Are the Rooms in Campus are Well Ventilated?	Yes											
2.	Window Floor ratio of the Rooms	24:1 (W:F)											
3.	What is the ownership of the vehicles used by your school? (Please Tick <input type="checkbox"/> only one)	Yes											
		Operator-owned vehicles											
		<input checked="" type="checkbox"/> School-owned vehicles											
		A combination of campus-owned and operator-owned vehicles											
4.	Provide details of school-owned motorised vehicles?	<table border="1"> <thead> <tr> <th>Buses</th> <th>Cars</th> <th>Vans</th> <th>Other</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>No. of vehicles</td> <td>2</td> <td>-</td> <td>2</td> <td>1</td> <td>05</td> </tr> </tbody> </table>	Buses	Cars	Vans	Other	Total	No. of vehicles	2	-	2	1	05
	Buses	Cars	Vans	Other	Total								
No. of vehicles	2	-	2	1	05								



No. of vehicles more than five years old	2	-	1	-	03
No. of Air conditioned vehicles	-	-	-	1	1
PUC done	Yes	-	Yes	Yes	
5. Specify the type of fuel used by your school's vehicles:	Buses	Cars	Vans	Other	
Diesel	✓	-	✓	✓	
Petrol	-	-	-	-	
CNG	-	-	-	-	
LPG	-	-	-	-	
Electric	-	-	-	-	
6. Air Quality Monitoring Program (If Any)	No				
7. Students suffer from respiratory ailments? (If Any)	No				
8. Details of Genset	Sudhir, Diesel Genset CS62.5D5P				

VI ANIMAL WELFARE

1. List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)	1. Cats, 2. Squirrels 3. Birds 4. Insects
2. How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	NIL
3. Does your institute have a Biodiversity Programme or a KARUNA CLUB?	Yes a club of staff members motivating students for conservation of nature as well as social activity for underserved people.

**VII ENVIRONMENTAL LEGISLATIVE COMPLIANCE**

1.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2.	Does your institute have any rules to protect the environment? List possible rules you could include.	Students and staff members instructed that do not pluck flowers from institution garden area.
3.	Dose Environmental Ambient Air Quality Monitoring conducted by the Institute?	No
4.	Dose Environmental Water and Wastewater Quality monitoring conducted by the Institute?	Yes the Quality is good periodically monitored by institute.
5.	Dose stack monitoring of DG sets conducted by the Institute?	Yes by the electrician.
6.	Is any warning notice, letter issued by state government bodies?	No
7.	Dose any Hazardous waste generated by the Institute? If yes explain its category and disposal method	No
8.	Dose any Bio medical waste generated by the Institute? If yes explain its category and disposal method	No

VIII GENERAL PRACTICES

1.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2.	Does your institute have any rules to protect the environment? List possible rules you could include.	Anybody in the premises are instructed not to cause any kind of harm to the plants.



3.	Does housekeeping schedule in your campus?	Yes
4.	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	YES By means of environmental awareness programme.
5.	Dose Important Days Like World Environment Day, Earth Day, and Ozone Day etc. eminent in Campus?	Yes
6.	Dose Institute participated in National and Local Environmental Protection Movement?	Yes
7.	Dose Institute has any Recognition/certification for environment friendliness?	No
8.	Dose Institute using renewable energy?	Yes Solar electricity
9.	Dose Institution conducts a green/environmental audit of its campus?	Yes
10.	Has the institution been audited / accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	No



RECOMMENDATIONS

- Environment Policy shall be adopted by the institute.
- Air Quality monitoring Programme should be implemented and Indoor air Quality Tests Shall be carried out yearly.
- Electrical/Electronic Equipments when not in use should be switched off and should not be on standby modes.



CONCLUSION

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. Overall, 30% of university campus is for landscaping. The audit has identified several observations for making the campus premise more environmentally friendly. The recommendations are also mentioned with observations for college team to initiate actions.

The audit team opines that the overall site is maintained well from environmental perspective. There are no major observations but few things are important which if implemented would further strengthen the environment setting in the college.



REFERENCE

- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 – The Petroleum Rules: 2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010.
- The Water [Prevention & Control of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
- The Water [Prevention & Control of Pollution] Cess Act-1977 (Amended 2003) and Rules- 1978
- The Air [Prevention & Control of Pollution] Act – 1981 (Amended 1987) The Air (Prevention & Control of Pollution) Rules – 1982
- The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules – 1981)
- E-waste management rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices



ANNEXURE – **PHOTOGRAPHS OF ENVIRONMENT CONSIIOUSNESS**



Tree Plantation



Green Campus



Potted Plants



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LAUREATE INSTITUTE OF PHARMACY

(Approved by PCI & AICTE, New Delhi and Himachal Pradesh Govt.)

"A" Certified NAAC Accredited Institute recognized u/s 2(f) of UGC Act 1956
Affiliated to Himachal Pradesh Technical University, Hamirpur
V.P.O. Kathog, Tehsil Jawalamukhi, Distt. Kangra, H.P. (176031)

Ref. No. LIP/2022/Estt-5575-II

Date: 20-05-2022

INSTITUTIONAL ENVIRONMENT AND ENERGY INITIATIVES

ACTION TAKEN REPORT

Green, Energy and Environment Audits are conducted by Elion Technologies & Consulting Private Limited and Sustainable Development, Laureate Institute of Pharmacy in the academic year 2022-2023. As per the report of the auditing agency, the following actions are taken:

- Strict instructions are given to faculty, staff and students to unplug and turn off electrical appliances when not in use or after use. Energy saving instruction are pasted on electrical switches.
- Air quality detector was installed and Indoor air quality assessment is done regularly with the help of air quality detector.
- Environmental policy prepared and adopted by the institute.
- Measures are taken to effectively implement green protocol in the campus.
- Students and staff are given strict instructions to follow green protocol.

Dr. M.S. Ashawat

Director Cum Principal
Director Cum Principal
Laureate Institute of Pharmacy
Kathog, Tehsil Jawalamukhi
Distt Kangra (HP)

V.P.O. Kathog, Tehsil Jawalamukhi, Distt. Kangra, H.P. - 176031
Web: www.laureateinstitute.in | e-mail: contactlaureate@gmail.com



Ref. No. LIH/2022/Est-5575-III

Date 20-05-2022

Environmental Policy

Scope of the Policy:

With the help of the Green Campus and Environment Policy, innovative new co-curricular and extracurricular activities will be developed that will motivate faculty and staff to take the initiative in bringing about positive change. These programmes demand a thorough examination of all administrative and infrastructure tasks from the perspectives of energy efficiency and environmental sustainability.

The focus areas of Environmental Policy are:

- ❖ **Clean Campus Initiatives**
- ❖ **Landscaping Initiatives**
- ❖ **Clean Air Initiatives**
- ❖ **Infrastructure**
 - Solar Power Plant
 - Installation of Energy Efficiency Equipment
 - Water Conservation through Rainwater Harvesting System
- ❖ **Waste Management processes**
 - Solid Waste Management
 - Liquid Waste Management
 - E-Waste Management
- ❖ **Awareness Initiatives**
- ❖ **Environment-centric Student Societies and Department Activities**
- ❖ **Green Audit**



Laureate Institute of Pharmacy

Approved by PCI & AICTE, New Delhi and H.P. Govt., Affiliated to H.P. Technical University,
H.P. Takniki Shiksha Board, & Recognized Under 2(f) of UGC Act 1956

Phone : 9218428040
9218405087

Ref. No. LA/811/2022/2.Stt-5575-III

Date ..20-05-2022

❖ Energy Audit

❖ Plastic-Free Campus

Objectives of the Policy:

1. To protect and conserve ecological systems and resources within the campus.
2. To ensure judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
3. To integrate environmental concerns into policies, plans and programmes for social development and outreach activities.
4. To work with all stakeholders and the local community to raise awareness and seek the adoption of environmental good practice and the reduction of any adverse effects on the environment.
5. To continuously improve our contribution to climate protection and adaptation to climate change and to the conservation of global resources
6. To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced or biodegradation.
7. To make the campus plastic free.
8. To conduct environmental and energy audits from time to time.
9. To minimize the use of paper in administration through having policy for E-governance.

Dr. M. S. Ashawat

Director Cum Principal

Director Cum Principal
Laureate Institute of Pharmacy
Kathog, Tehsil Jawalamukhi
Distt. Kangra (HP)

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Ref. No. ...LIPM/2022/Estt-5575-TV

Date20.05.2022

Policy

Clean Campus Initiatives

Laureate Institute of Pharmacy had promised to actively coordinate cleanliness activities in the campus and beyond the campus in accordance with the vision of Swachh Bharat Abhiyan. It commits to continue with this Programme.

The broad vision is as follows:

1. Generating mass awareness on cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives.
2. Activities under 'Swachh Bharat Abhiyan' will be a key component of all the community work being done by NSS and Green Warrior volunteers of the college.
3. Staff Members will be encouraged to participate in the cleanliness drive in the college campus.
4. Remove all kinds of waste material like broken furniture, unusable equipment etc.
5. Administer of the pledge by students and staff members to maintain cleanliness of the college campus and its surrounding areas on an annual basis.
6. Commit to manage waste and maintain clean campus especially during college events.

Landscaping Initiatives

It is a vital part of the life of a campus, providing space for study, play and outdoor events, relaxation and aesthetic appreciation. Green campus landscapes also manage runoff, help recharge groundwater, and clean and cool the air on campus. The landscape serves as a visual representation of the campus community's commitment to sustainability. As campus landscapes are so visible and accessible, landscaping initiatives are a great way to build awareness around the environment. There are more than 50 trees and more than 1200 Plants on campus along with of grass cover in the five lawns. The



Ref. No.

Date

landscape of trees and plants provide the more than 800 students and staff with clean and cool air and is a soothing environment. The college commits to enriching this healthy habitat and maintaining the symbiotic relation of the institution with nature by Organizing annual tree plantation drives & Encouraging student clubs to hold tree planting events.

Clean Air Initiatives

We encourage our students and staff to use public transportation. The entry of automobiles inside the campus is restricted to discourage the use of private vehicles. For this reason, we feel responsible to maintain our green cover. The abundant natural landscape cleans the air on campus.

Infrastructural Initiatives

Renewable Sources of Energy Laureate Institute of Pharmacy is dedicated to minimize and sustainably manage its use of electricity. The college believes in reducing the consumption of electricity produced by non-renewable resources by switching to clean energy sources like solar energy for purposes like lighting the campus. Hence solar panels were installed on top roof of the college building and Administration Building and also on boy's hostel building.

❖ Energy Saving and Energy Efficient Equipment

We commit to install environment-friendly electrical appliances that save energy and reduce wasteful inefficiencies. The college believes in using cleaner energy such as LED lighting.

❖ Water Conservation through Rainwater Harvesting System

Laureate institute of Pharmacy has committed itself to the effort to replenish the groundwater table by practicing rainwater harvesting. This practice helps in the replenishment and recharge of the groundwater.



Ref. No. *LIPAH/2022/Est-5575-V*

Date *20.05.2022*

Waste Management Processes

Laureate institute of Pharmacy strives to have a minimal impact on the environment and is dedicated to reduce and manage the waste generated by the college campus. The following specific procedures will be undertaken to ensure Laureate institute of Pharmacy contribution in protecting the environment.

❖ Solid Waste Management

With its aim to provide holistic education that also has a positive impact on the environment, the college will adopt practices that will mitigate the generation, and manage solid waste through the following ways:

- Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
- Take initiatives to spread awareness amongst students about Food wastage and ways of minimizing it, Minimizing the use of packaged food
- The habit of reusing and recycling non-biodegradable products.
- Providing awareness to the students on solid waste management.

❖ Liquid Waste Management

- Maintain leak proof water fixtures.
- Continued employment of a caretaker to take immediate steps to stop any water leakage through taps, pipes, tanks, toilet flush etc.
- Use of water harvested from rain water harvesting system.

❖ E-Waste Management

Laureate Institute of Pharmacy ensures that its usage of technology and generation of e-waste does not impact the environment. For this purpose, the college plans to strive towards:



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Date

- More provisions for the disposal of the institutional e-waste.
- Awareness amongst students about reduction of e-waste and environment friendly disposal practices for e-waste.
- Encouraging department and society level activities pertaining to e-waste management.

Awareness Initiatives

Outreach and education are of utmost importance so that all members of the campus community may value the objectives of the policy and aid in its implementation. This is why Laureate institute of Pharmacy supports and encourages awareness Rallies and other interactive sessions to facilitate effective implementation of the Green Campus, Energy and Environment policies. Eco club and Department Laureate Institute of Pharmacy encourages all the departments and specific student societies like green warriors, NSS, and others to organize events, competitions and training sessions that will bring about positive environmental changes at the grass root level. The college supports departments and student clubs in moulding the students into active agents of environment protection and conservation.

Green Audit

The college aims to regularly conduct a Green Audit of our college campus to assess our strengths and weaknesses to further our goals of long-term sustainability. A green audit is a useful tool to determine how and where most energy or water or resources are being used. The college can then consider how to implement changes and make savings. It can determine the type and volume of waste. Recycling projects or waste minimization plans can be adopted. It will create health consciousness and promote environmental values and ethics. It provides a better understanding of the impact of ecofriendly practices on campus. Green auditing will promote financial savings through reduction of resource use. It



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Date

is imperative that the college evaluate its own contributions toward a sustainable future.

Energy Audit

An Energy Audit to be conducted as and when required to further reduce its carbon footprint. The importance of reducing energy consumption cannot be overstated. The energy audit, with its specialized tools will identify wastage of energy. Such an inspection often reveals several different flaws which cause a loss of significant amounts of energy which the college will not be able to detect. These flaws often have easy and affordable solutions and provide significant savings.

Plastic-Free Campus

Laureate Institute of Pharmacy has been observing most of its duties in terms of solid waste management since its inception. In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use and pollution, the college administration strictly bans the use of single use plastics in its premise to make it a 'Plastic Free Campus'.

Dr. M. S. Ashawat

Director Cum Principal

Director Cum Principal
Laureate Institute of Pharmacy
Kathog, Tehsil Jawalamukhi
Distt. Kangra (HP)

No HFW-KGR/NHM (NTEP)/2022-
O/o the Chief Medical Officer,
Kangra at Dharamshala

To

Invitees Participants
(As per list enclosed)

Dated Dharamshala the 26th March 2023

Subject **Multisectoral Mainstreaming Convergence Workshop for End TB under chairmanship of Hon'ble Governor, HP on 27th March 2.45 PM at DC Office Room No 823, Kangra at Dharamshala**

Sir/Madam.

I am to convey that India stands committed to the Top Public Health Priority- End TB by 2025. Apart from medical services for free diagnosis and treatment, the response envisages building partnerships with departments for stigma reduction, building capacities of institutions that impact population vulnerable to TB, and making social protection schemes more accessible to TB patients & families. PM TB Mukl Bharat Abhiyan is flagship initiative with many joining as Nikshay Mitras to provide psychosocial and nutrition support to consented TB patients. Various MOUs have been signed by line departments for mainstreaming at State level in this regard with National Health Mission under chairmanship of the Hon'ble Governor, HP.

District administration has taken a lead in stewardship with various innovations, and line department heads have been sensitized on the roles in the Zila Kshay Rog Samiti Meeting which was held on 24th March.

Multisectoral Mainstreaming Convergence Workshop under chairmanship of Hon'ble Governor, HP is scheduled to be held on 27th March 2.45 PM at Room No 823 DC Office Complex. The theme of World TB Day 2023 Campaign - 'Yes! We can end TB!' - conveys a message of hope that getting back-on-track to turn the tide against the TB epidemic is possible through innovations, accelerated action and multisectoral collaboration.

You are requested to make it convenient to attend the meeting. Queries/ confirmations be sent to dlhpkgr@ntep.org


26/3/23.
Deputy Commissioner,
Kangra at Dharamshala

Dated the:

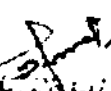
Endst As above:

Copy for information to:

The District Tuberculosis Officer, Kangra at Dharamshala to make necessary arrangements accordingly.

For The Red Ribbon Club
Laureate Institute of Pharmacy
Kathog Tchsil Jawalamukhi
Distt. Kangra (H.P.)

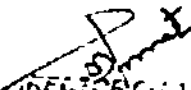

26/3/23.
Deputy Commissioner,
Kangra at Dharamshala


MEDICAL PRINCIPAL
LAUREATE INSTITUTE OF
PHARMACY KATHOG
TCHSIL JAWALAMUKHI
DISTT. KANGRA (H.P.)

Annexure-I (List of participants Multisectoral Main streaming Convergence Workshop under chairmanship of Hon'ble Governor, HP)

1. The Commissioner, MC Dharamshala
2. The Superintendent of Police Dharamshala
3. The Principal Medical College DRPGMC Tanda
4. The Chief Medical Officer Kangra at Dharamshala
5. The Principal, RHFWTC Kangra at Cheb
6. The Senior Medical Superintendent DRPGMC Kangra at Tanda.
7. The Senior Medical Superintendent ZH Dharamshala
8. The District Labour Officer, Kangra at Dharamshala
9. The General Manager, Industries, Kangra at Dharamshala
10. The Deputy Director -cum- P.O. DRDA Kangra
11. The District Panchayat Officer, Kangra at Dharamshala
12. The Regional Manager, HRTC Dharamshala
13. The Deputy Director Higher Education Kangra
14. The District Welfare Officer Kangra
15. The District Programme Officer (ICDS) Kangra
16. The District Food & Civil Supply Controller Kangra
17. The District Public Relation Officer Kangra
18. The District Youth Services & Sports Officer (DYSSO), Kangra at Dharamshala
19. The District Lead Bank Manager PNB, Dharamshala
20. The Supdt Jail, Dharamshala
21. The District Ayurveda Officer Kangra at Dharamshala
22. The Superintendent, Postal Dharamshala Circle
23. The MOH Kangra at Dharamshala
24. The Executive Director, Gunjan Organization for Community Development, Sidhwari, Dharamshala
25. Sh. Sunil Nagpal PDG, Rotary District 3070
26. The President, Rotary Club Palampur
27. The President Rotary Club Dharamshala
28. The Director, Laureate Institute of Pharmacy Kathog
29. The Principal, Satyam College of Nursing, Shahpur
30. Mr Arvind, CORD Sidhwari, Dharamshala
31. The President Lions Club Dharamshala
32. Sh Digbijoy, Central University Dehra Campus
33. Dr. Shailja Kanwar, WHO consultant NTEP HP, Kangra
34. The Team Lead, Akshay Plus Project, the Union against TB and lung Disease, District Kangra along with Team
35. TB Champions/ Survivors (Anjali, Anchita)
36. The Dist TB Officer cum Dist AIDS Programme Officer, Kangra at Dharamshala along with DTC Team

For The Rev. Ribbon (11)
Laureate Institute of Pharmacy
Kathog Tehsil Jawalamukhi,
Distt. Kangra (H.P.)


DIRECTOR/CU PRINCIPAL
LAUREATE INSTITUTE OF
PHARMACY KATHOG
TEH. JAWALAMUKHI
DISTT. KANGRA (H.P.)



RED RIBBON CLUB Activities for the Session 2022-23

On 24-26th March a Two days' workshop for End TB under the chairmanship of hon'ble Governor of Himachal Pradesh Sh. Shiv Pratap Shukla & Deputy commissioner Kangra Dr. Nipun Jindal on World Tuberculosis Day. On this program Dr. Nipun Jindal said "India stands committed to the Top Public Health Priority- End TB by 2025. Apart from medical services for free diagnosis and treatment, the response envisages building partnerships with departments for stigma reduction, building capacities of institutions that impact population vulnerable to TB, and making social protection schemes more accessible to TB patients & families. PM TB Mukh Bharat Abhiyan is flagship initiative with many joining as Nikshay Mitras to provide psychosocial and nutrition support to consented TB patients". TB awareness chariot was flagged off on Friday under a 3-day special campaign to make people aware about TB. He flagged off the awareness chariot from the Deputy Commissioner's office premises. During this CMO Dr. Sushil Sharma, Dr. Rajesh Sood District Tuberculosis Officer, Dr. M.S. Ashawat Principal cum Director of Laureate Institute of Pharmacy Jawalamukhi, Laureate Institute Red Ribbon Club Chairman Dr. CPS Verma, Laureate Institute Red Ribbon Club Nodal Officer Mr. Tarun Sharma & other dignitaries were present. Through this awareness chariot operated in collaboration with the District Health Department and Laureate Institute of Pharmacy Jawalamukhi, people will be made aware of TB in the district for the next 3 days and they will be given detailed information about the symptoms, treatment and prevention of the disease. The Deputy Commissioner said that this will go a long way in making people aware and in the prevention of TB.

National TB Elimination Programme
National Health Mission
 &
The Union

World TB Day 2023
Awareness Campaign

YES!
 WE CAN END TB

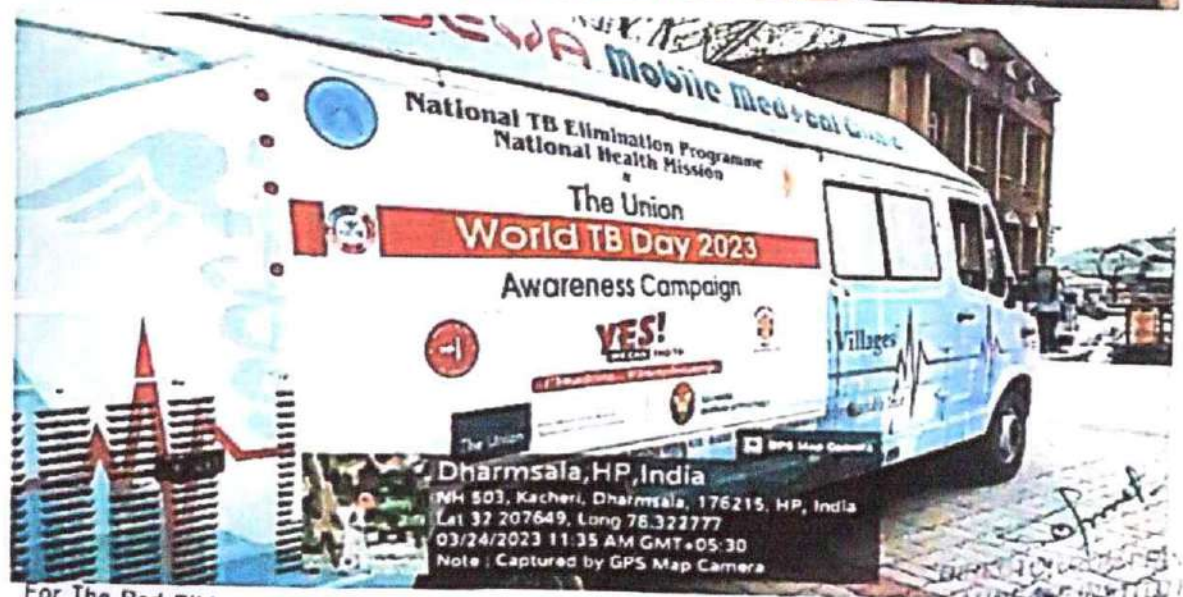
#EndMukhBharat #TBKangra@HealthKangra

The Union | Laureate Institute of Pharmacy



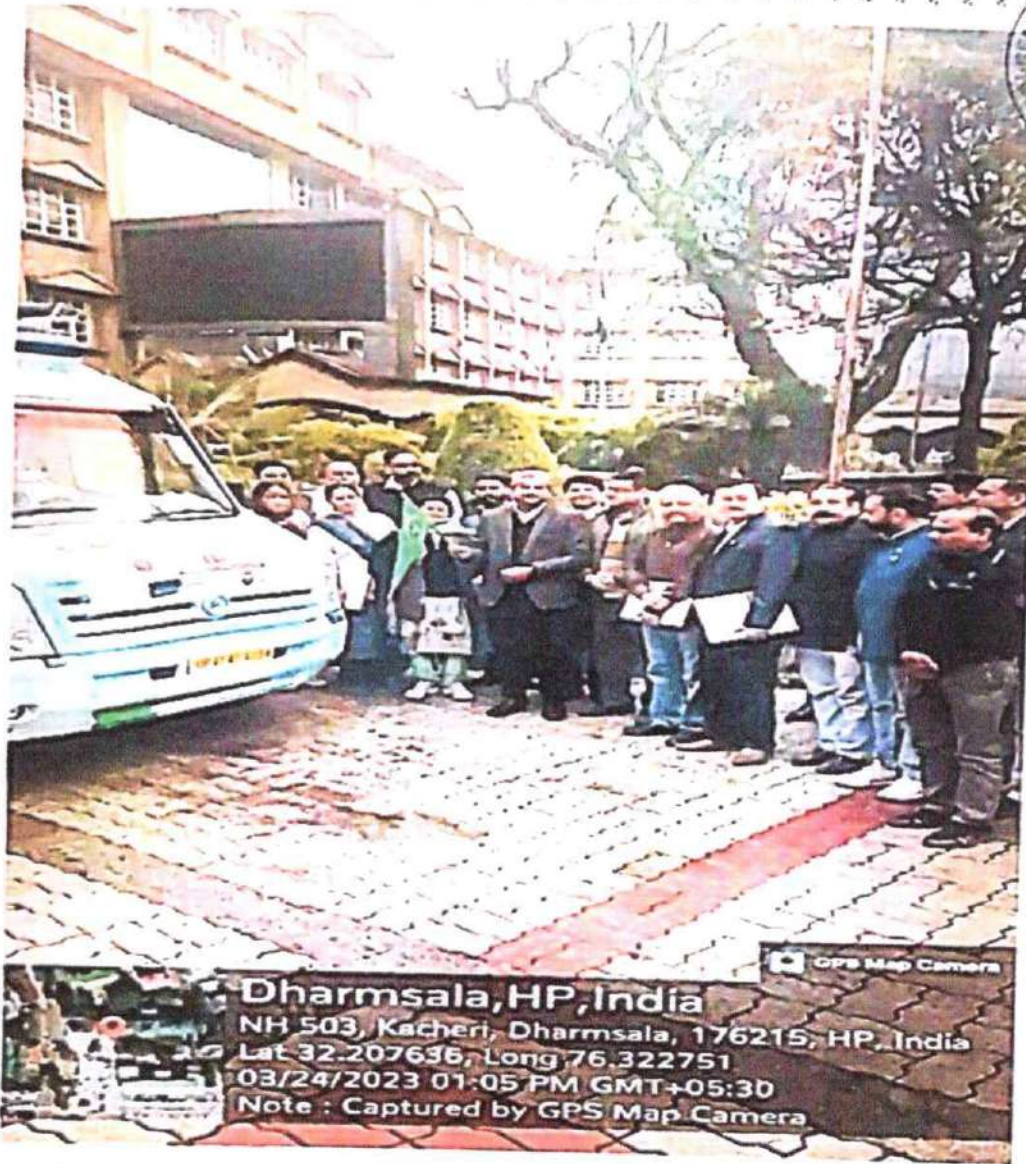
For The Red Ribbon Club
Laureate Institute of Pharmacy
Kathog Tehsil Jawalamukhi
Distt. Kangra (H.P.)

[Signature]
DIRECTOR CUM PRINCIPAL
LAUREATE INSTITUTE OF
PHARMACY KATHOG
TEH. JAWALAMUKHI
DISTT. KANGRA (H.P.)



For The Red Ribbon Club
Laureate Institute of Pharmacy
Kathog Tehsil Jawalamukhi
Distt. Kangra (H.P.)

DR. JYOTSNA KUMAR
LAUREATE INSTITUTE OF
PHARMACY KATHOG
TEH. JAWALAMUKHI
DISTT. KANGRA



Dharmsala, HP, India
NH 503, Kacheri, Dharmsala, 176215, HP, India
Lat 32.207636, Long 76.322751
03/24/2023 01:05 PM GMT+05:30
Note : Captured by GPS Map Camera

In news gallery:

टी.बी. बीमारी के खिलाफ खड़ा करें एक जन आंदोलन : डी.सी.

एन.डी.ए. के अध्यक्ष डॉ. राजेश कुमार ने कहा कि टी.बी. बीमारी एक खतरनाक बीमारी है जो हर साल लाखों लोगों की जान लेती है। यह बीमारी केवल दवा से नहीं ठीक हो सकती है, बल्कि इसे रोकने के लिए हमें जन आंदोलन खड़ा करना होगा।

डॉ. राजेश कुमार ने कहा कि टी.बी. बीमारी के खिलाफ जन आंदोलन खड़ा करने के लिए हमें एक संयुक्त मोर्चा बनाना होगा। हमें सरकार, डॉक्टरों, समाजसेवकों और आम जनता के बीच एकजुटता बनी चाहिए।



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For The Red Ribbon Club
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LAUREATE INSTITUTE OF PHARMACY

(Approved by PCI & AICTE, New Delhi and H.P. Govt. Under Section 2(f) of UGC Act 1956)

Affiliated to Himachal Pradesh Technical University, Hamirpur
V.P.O Kathog, Tehsil Jawalamukhi, Distt. Kangra, H.P.(176031)

Ref. No.

Date:.....

Report on National Pollution control Day

Date 02nd December 2022

NSS unit in collaboration with the IIC committee of the institute organised one day awareness program against pollution for the students and locals on the day of National pollution control day. The program was joined by around 60 people including both students and faculty of the institution. The awareness program started around 1 PM and it started with some slogans from our NSS unit volunteers.



Bahni, Himachal Pradesh, India
V7FP+J7Q, Jwalaji Rd, Bahni, Himachal Pradesh 177117,
India
Lat 31.873935°
Long 76.285971°
02/12/22 03:33 PM GMT +05:30



[Signature]
N.S.S. Officer - N.S.S. Unit
Laureate Institute of Pharmacy
Kathog, Teh. Jawalamukhi
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DIRECTOR CUM PRINCIPAL
LAUREATE INSTITUTE OF
PHARMACY KATHOG
TEH. JAWALAMUKHI
DISTT. KANGRA



Jawalamukhi, Himachal Pradesh, India
V8G9+6MW, Kohala, Jawalamukhi, Himachal Pradesh
176031, India
Lat 31.875631°
Long 76.319285°
02/12/22 03:52 PM GMT +05:30

GPS Map Camera



Jawalamukhi, Himachal Pradesh, India
V8G9+6MW, Kohala, Jawalamukhi, Himachal
Pradesh 176031, India
Lat 31.875608°
Long 76.319275°
02/12/22 03:52 PM GMT +05:30

GPS Map Camera

Then Respected Director cum Principal Dr. M. S. Ashawat sir gave everyone a warm welcome for joining this initiative and introduced the attendees with the motive of this program (Awareness against Electronic Waste). After that brief introduction, the NSS Unit started the Rally with a few more slogans. They rose slogans all the way from the Institution to the Jwalaji market. The attendees went from the institution, first to the Municipal Corporation Jwalaji.



There we met with Execution Officer, Hitesh Kumar and he firstly thanked the Institution for the taking this initiative. Then he told everyone about "What E-Waste is?" and also briefly explained how electronic waste is managed in Jawalaji market. After that a Token of Appreciation was presented to the institute by the EO.



The attendees then moved to SDM Office while shouting their slogans continuously and also collecting any kind of E-waste from all the shops in the Market Area.



After reaching the Jwalaji Tehsil, The SDM Jwalaji Manoj Kumar and DSP Chandra Pal Singh also appreciated the efforts of the institution with an appreciation award and guided the attendees about pollution problems and how to resolve them. The collective efforts of the students, the faculty, the IIC Members and NSS unit mad this awareness program successful.




ज्वालामुखी : लॉरेट फार्मसी संस्थान के छात्र और प्राध्यापक ।

इलेक्ट्रॉनिक वेस्ट की हानियां बताई


ज्वालामुखी, 3 दिसम्बर (ब्यूरो) : उपमंडल ज्वालामुखी में कश्मीर स्थित लॉरेट फार्मसी संस्थान ने राष्ट्रीय प्रदूषण रोकथाम दिवस पर शैली का आयोजन किया। प्रधानाचार्य डा. एम.एस. अशावत ने कहा कि शैली का मुख्य उद्देश्य लोगों को इलेक्ट्रॉनिक वेस्ट की हानियों के प्रति जागरूक करना था।




Programme Officer
Shammy Jindal



N.S.S. Officer - N.S.S. Unit I
Laureate Institute of Pharmacy
Kathog, Teh. Jawalamukhi
District Kangra (H.P.)


Director cum Principal
Prof. (Dr.) M S Ashawat

DIRECTOR CUM PRINCIPAL
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