Sustainability Initiatives and Recycling Infrastructure

Swami Rama Himalayan University has implemented a range of sustainability initiatives focused on promoting environmental responsibility across campus. These include energy-efficient systems, water conservation measures, tree plantation drives, and awareness campaigns to foster eco-friendly habits among students and staff.

A key part of SRHU's efforts is its well-established **recycling infrastructure**, which supports systematic waste segregation, recycling of paper and plastic, and proper disposal of biomedical and e-waste. Composting units for organic waste and recycling bins placed strategically across campus ensure efficient waste management. These initiatives reflect the university's commitment to reducing its environmental impact and promoting a sustainable, green campus environment.

1. Environmental Awareness and Education Campaigns

Report on World Environment Day

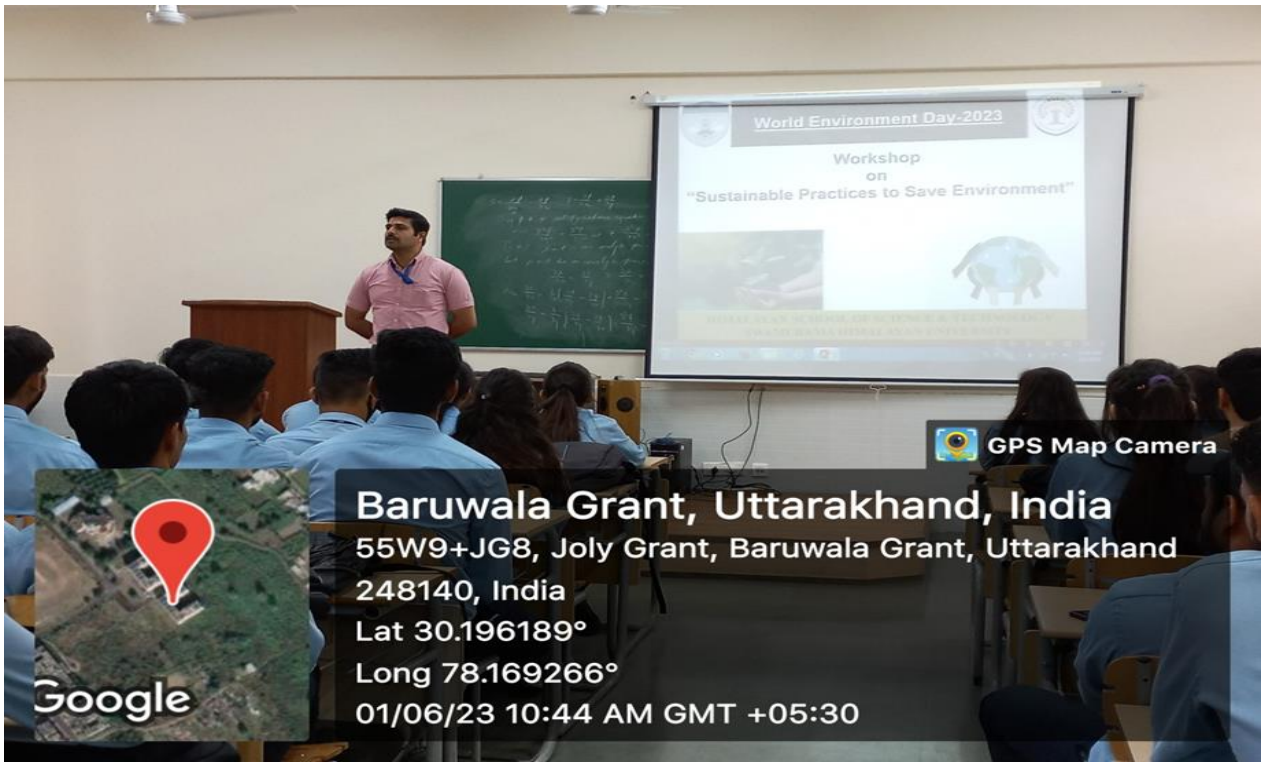
Date: June 05,2023

Activities: The Himalayan School of Science & Technology (HSST) and the Himalayan College of Nursing (HCN) celebrated World Environment Day 2023. On June 1st, a workshop was held on sustainable practices in HSST, while on June 5th, a poster-making activity focused on sustainable development, climate change, and paper-free practices was held. Students from B.Tech., BCA, and MCA programs participated in these events, promoting environmental awareness and sustainable consumption behavior. The Student Nurses' Association (SNA) and Literary Committee of HCN observed the day by attending a virtual meeting organized by the Hon'ble Education Minister, as well as organizing a speech competition for students on the theme "Save the Environment".

Place of the event: HSST and HCN, SRHU
Participants: Students and faculty members, SRHU

SNA & Literary Committee, HCN, celebrating World Environmental Day at SRHU

SNA & Literary Committee, HCN, celebrating World Environmental Day at SRHU



Faculty taking a session on 'Sustainable practices to save the environment" at HSST

Workshop on 'Sustainable practices to save the environment" at HSST

Display of Posters by students of HSST, SRHU

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जल, जंगल, जमीन हमारी पहचान : धस्माना

देहरादून, कार्यालय संवाददाता। स्वामी राम हिमालयन विश्वविद्यालय (एसआरएचयू) जौलीग्रांट पर्यावरण संरक्षण के क्षेत्र में एक मॉडल विवि के रूप में स्थापित हो गया है। करीब 200 एकड़ के हरे-भरे विवि परिसर में जल व ऊर्जा संरक्षण समेत प्लास्टिक और ई-वेस्ट निस्तारण को कई योजनाएं चल रही हैं। लगातार यहां पर बड़े पौधरोपण अभियान चलाए जा रहे हैं।

कुलाधिपति डॉ. विजय धस्माना ने विश्व पर्यावरण दिवस की पूर्व संध्या पर कहा कि सिंगल यूज प्लास्टिक के खात्मे को एसआरएचयू में प्लास्टिक

डॉ. विजय धस्माना। • हिन्दुस्तान

बैंक बनाया गया है। प्लास्टिक कचरे को निस्तारण के लिए आईआईपी भेजा जाता है। कैंपस परिसर में आधिकारिक कार्यों के लिए इलेक्ट्रिक वाहनों का संचालन शुरू किया गया है। विवि में पेपरलेस कार्य प्रणाली को अपनाया गया है। एसआरएचयू परिसर में ई-वेस्ट स्टोर बनाया गया है। विवि राष्ट्रीय सौर मिशन से जुड़ा है। नर्सिंग और मेडिकल कॉलेज में 500 किलोवाट रूफ टॉप सोलर पैनल लगाए गए। 1500 किलोवाट का सोलर पैनल लगाए जा चुके हैं। विवि 68,51,600 किलोवाट (यूनिट) बिजली की बचत कर चुका है। 28 वर्ष पहले ही जल आपूर्ति व संरक्षण के लिए एक अलग वाटसन (वाटर एंड सैनिटेशन) विभाग का गठन किया जा चुका है। जल शक्ति मंत्रालय ने एचआईएचटी को राष्ट्रीय जल जीवन मिशन के हर घर जल योजना के सेक्टर पार्टनर एवं मुख्य संसाधन केंद्र (केआरसी) के तौर पर नामित किया है। एसआरएचयू कैंपस में करीब 1.25 करोड़ रुपये की लागत से निर्मित सीवेज ट्रीटमेंट प्लांट (एसटीपी) लगाया गया है। इस प्लांट के माध्यम से सात लाख लीटर पानी को रोजाना शोधित किया जाता है। कुलाधिपति डा. विजय धस्माना ने कहा कि जल, जंगल, जमीन सिर्फ नारा नहीं बल्कि हमारी पहचान है। भावी पीढ़ी के सुरक्षित भविष्य के लिए पर्यावरण संरक्षण जरूरी है।

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हूटिंग के बीच मेसी ने कहा पीएसजी को अलविदा 14

पर्यावरण संरक्षण के माडल के रूप में संस्थापित है एसआरएचयू : कुलाधिपति

संवाद सहयोगी, डोईवाला: शिक्षा, स्वास्थ्य व सामाजिक विकास के क्षेत्र में आयाम स्थापित कर चुका स्वामी राम हिमालयन विश्वविद्यालय (एसआरएचयू) जौलीग्रांट पर्यावरण संरक्षण के क्षेत्र में भी एक माडल विश्वविद्यालय के रूप में संस्थापित हो चुका है। करीब दो सौ एकड़ के हरे-भरे विश्वविद्यालय कैंपस में जल व ऊर्जा संरक्षण सहित प्लास्टिक व ई-वेस्ट निस्तारण के लिए विभिन्न योजनाएं संचालित हैं। विश्वविद्यालय में समय-समय पर वृहद पौधारोपण अभियान भी संचालित किया जाता है।

विश्व पर्यावरण दिवस के उपलक्ष्य में आयोजित कार्यक्रम में स्वामी राम हिमालयन विश्वविद्यालय के कुलाधिपति डा. विजय धस्माना ने कहा कि जल, जंगल, जमीन सिर्फ नारा नहीं बल्कि हमारी पहचान है। भावी पीढ़ी के सुरक्षित भविष्य के लिए जरूरी है पर्यावरण संरक्षण।

स्वामी राम हिमालयन विश्वविद्यालय के कुलाधिपति डा. विजय धस्माना ● सामार विवि

वृहद पौधरोपण अभियान के जरिये जागरूकता

कुलाधिपति डा. विजय धस्माना ने बताया कि विश्वविद्यालय में समय-समय पर ''गो ग्रीन कैंपस'' अभियान के तहत वृहद पौधरोपण अभियान चलाया जाता है। पौधरोपण अभियान में विभिन्न स्टाफ सहित छात्र-छात्राओं को भी शामिल किया जाता है। ताकि पर्यावरण संरक्षण के प्रति भावी पीढ़ी सजग हो सके।

एसआरएचयू में प्लास्टिक बैंक की स्थापना

कुलाधिपति डा. विजय धस्माना ने बताया कि सिंगल यूज प्लास्टिक खात्मे की तरफ कदम बढ़ाते हुए एसआरएचयू में प्लास्टिक बैंक बनाया गया है। सिंगल यूज प्लास्टिक के इस्तेमाल पर रोक के लिए विश्वविद्यालय में पहले से ही अभियान चलाया जा रहा है। निश्चित समय अंतराल पर इस संबंध में छात्र-छात्राओं सहित स्टाफकर्मियों को जागरूक भी किया जाता है। प्लास्टिक बैंक से प्लास्टिक कचरे को निस्तारण के लिए आइआइपी देहरादून भेजा जाता है। प्लास्टिक वेस्ट का 70 प्रतिशत रिसाइकिल कर डीजल बनाने में इस्तेमाल किया जाता है। इससे कूड़े का बेहतर निस्तारण होता है।

News Clipping of Message by Chancellor on the occasion of World Environment Day in Hindustan
News Clipping of Message by Chansellor on the occasion of World Environment Day in Dainik Jagran

Plantation of Trees

SRHU is dedicated to fostering a sustainable and environmentally conscious campus. One of the most impactful steps taken towards achieving this vision is the extensive tree plantation initiative within the university premises. Trees act as natural air filters, absorbing pollutants and releasing oxygen. This significantly contributes to improved air quality on campus, creating a healthier atmosphere for all. SRHU's tree plantation initiative includes a wide variety of indigenous and exotic tree species carefully chosen to thrive in the local climate and conditions.

Dehradun | Dehradun, 21 Sep, 2023 | www.garhwalpost.in | Garhwal Post | 7

Plantation Drive undertaken for Family Adoption Programme

By OUR STAFF REPORTER

DEHRADUN, 20 Sep: The Family Adoption Programme is an initiative aimed at promoting community engagement and environmental responsibility amongst medical students. It encourages students to adopt families in rural and underserved areas, providing them with healthcare support and promoting health awareness. As part of this programme, the students also undertake community-based projects to address local health and environmental issues.

Under the guidance of Dr Ashok K Srivastava, Prof & HoD, Department of Community Medicine, HIMS, SRHU, a Plantation Drive was conducted today in village Gauhri Maafi, Doiwala, with support of Rohit Nautiyal (Gram Pradhan) and School Principal of Primary School, Gauhri Maafi. The primary objectives of this drive were to contribute to environmental conservation, raise awareness about the importance of tree plantation, and engage with the local community.

The college's commitment to sustainability was demonstrated through the commencement of the plantation drive, which took place early in the morning. Equipped with saplings and gardening tools, students assembled at the college campus and then headed to the plantation site to plant native species of trees in and around the Anganwadi Centre, primary school, and families enrolled in the Family Adoption Programme. Deliberate consideration was given to selecting trees that are best suited to flourish in the local climate and offer ecological advantages such as air purification, carbon sequestration and wildlife habitat. To ensure, both, biodiversity and ecological resilience, a diverse range of over 434 tree saplings including Guava, Jamun, Litchi, Mango, Tulsi, Majestic Palms and marigold were thoughtfully incorporated into the planting initiative.

The enthusiasm among the students was palpable, reflecting their growing awareness of the urgent need to address environmental issues. Many students expressed their excitement at being part of a hands-on initiative to combat climate change.

Dr Neha Sharma, Assistant Professor, Department of Community Medicine, Himalayan Institute of Medical Sciences, who supervised the overall plantation drive, shared her thoughts, saying, "It is inspiring to see more than 150 students coming together for this cause. Every tree we plant is a small step towards a greener, healthier future. The students of Himalayan Institute of Medical Sciences have set a commendable example by taking an active role in addressing climate change through their plantation drive. Their passion, combined with community support and expert guidance, has potential to create a lasting positive impact on the environment. As the trees they planted grow and thrive, they will symbolise the hope for a greener and more sustainable future."

The long-term impact of this plantation drive is expected to be significant. The newly planted trees will not only contribute to reducing the carbon footprint but also provide shade and greenery to the college campus. Additionally, they will act as a living laboratory for students studying ecology and environmental science.

In a commendable display of environmental stewardship, MBBS Batch 2022 students, students pursuing Masters in Epidemiology- Siddhesh Kolambkar, Shivani Dahiwelkar, Niharika Gaur played a major role. Dr Himanshu Mamgain, (Senior Resident), Interns Shubham Aggarwal, Shristi Pori, Siddharth Tyagi, Vani Verma, Afzal and Simran Gujjar, Sanjeet (public health inspector), Rita (Medical Social Worker), Pradeep Saklani (Lab Technician), Kamaljeet Singh (orderly) were also present in the drive.

Report on NASI's Popular Lecture on Earth Day - 2024

On the occasion Earth day 2024 Hon'ble Vice Chancellor Dr. Rajendra Dobhal highlighted this year's Earth Day theme, "Planet vs Plastic," stressing the urgent need to eliminate single-use plastics and adopt sustainable alternatives. As a step towards this, a plastic bank has been set up on campus for responsible disposal and recycling. The keynote speaker, noted historian and environmentalist Mr. Ajay Sharma, reminded everyone that the Earth is shared by all living beings—not just humans. He cautioned that unchecked human exploitation of nature is leading to severe environmental degradation and natural disasters.

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SRHU holds awareness programme on World Earth Day

By OUR STAFF REPORTER

DEHRADUN, 22 Apr: On the occasion of World Earth Day, today, Swami Rama Himalayan University (SRHU), Jolly Grant, organised guest lectures on the day's theme. Expert speakers highlighted the critical need for environmental protection to address the looming crisis on Earth.

The lecture was held in the university's Adikailash Auditorium, under the auspices of the National Academy of Sciences Uttarakhand Chapter, Dehradun. The keynote speaker, renowned historian and environmentalist Ajay Sharma, stated that Earth is home not only to humans but also to millions of animals and plants. However, humans are continuously harming the Earth to fulfill their needs, leading to natural disasters. He shared insights about the history, heritage, and current geography of Dehradun city.

The Vice-Chancellor of SRHU, Jolly Grant, Dr Rajendra Dobhal, mentioned that this year's World Earth Day theme is 'Planet versus Plastic'. The aim of this theme is to end the use of single-use plastics and to find alternatives. SRHU has set an example in environmental conservation, including the establishment of a plastic bank for plastic disposal.

The Director of Research and Development, Dr Bindu Dey, expressed gratitude to all attendees. During the event, the Director-General (Academic Development) Dr Vijendra Chauhan, Registrar Dr Mukesh Bijlwan, along with faculty and students from various colleges, were present.

Meanwhile, the Community Health Nursing Department of Himalayan College of Nursing (HCN) conducted an awareness campaign in the village of Thano. BSc Nursing students engaged the children of Thano Primary School through plays and a poster exhibition on environmental conservation. During this time, Principal Dr Sanchita Pugazhendi and Kavita Solanki planted trees. Faculty members Atul Kumar, Shobha Masih, Chandan Kumar, and John Davidson were also present at the event.

Dear readers,

We value your feedback and suggestions. Do e-mail them to us at **garhwalpost@gmail.com** and help us serve you and the cause of our state, better.

Editor

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“Report on Awareness drive on World Environment Day”

On the occasion of World Environment Day 2024, students of Swami Rama Himalayan University engaged in several activities focused on the theme of land restoration, desertification, and drought resilience. They conducted informative sessions with their adopted families to raise awareness about the importance of healthy ecosystems and simple ways to help combat environmental challenges. Additionally, the students and families participated in planting trees to enhance local greenery and promote teamwork. They also shared advice on effective waste management practices at home, including composting, reducing plastic use, and recycling responsibly, aiming to encourage sustainable habits within their communities.

Place of the event:- Gram Pradhan of village Garhi Mayechak, Shyampur.

Participants:-MBBS students and faculty, Dept. of Community Medicine, HIMS, SRHU


GPS Map Camera
Rishikesh,UT,India
Khairi Kalan Bhattowala Road, Garhi May Chak,
Rishikesh, 249204, UT, India
Lat 30.069724, Long 78.219798
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Note : Captured by GPS Map Camera

Report on session on *Paryavaran Pe Charcha*

On the occasion of World Environment Day, a session on *Paryavaran Pe Charcha* was organized at SRHU with active participation from students and faculty. The event focused on raising awareness about environmental conservation and sustainable practices. Eminent speakers highlighted the urgent need for climate action and ecological responsibility. Various student-led initiatives and posters promoting green living were showcased. The session concluded with a collective pledge to protect and nurture our environment.

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- नदी संरक्षण और सूखे की तैयारी के लिए रणनीति विषय पर विमर्श

■ सहारा न्यूज ब्यूरो

ऋषिकेश।

स्वामी राम हिमालयन विश्वविद्यालय में विश्व पर्यावरण दिवस मनाया गया। इस दौरान आयोजित गोष्ठी में पर्यावरण सरंक्षण के लिए जरूरी कदम उठाने और लोगों को इसके प्रति जागरूक करने का संकल्प लिया गया।

बुधवार को बीसी राय सभागार में राष्ट्रीय विज्ञान अकादमी (नासी) के सहयोग से विश्व पर्यावरण दिवस पर पर्यावरण पर चर्चा कार्यक्रम आयोजित किया गया। इस अवसर पर एसआरएचयू के कुलपति डा. राजेन्द्र डोभाल ने कहा कि पूरे विश्व में प्रदूषण काफी तेजी से फैल रहा है। जिससे हमारी प्रति को काफी नुकसान हो रहा है। हमें पर्यावरण संरक्षण की दिशा में मिलकर कार्य करना होगा। नदी संरक्षण और सूखे की तैयारी के लिए रणनीति विषय पर चर्चा की।

उन्होंने अपने अनुभव साझा किये कि किस तरह से नदियों को प्रदूषण से बचाया और संरक्षित किया जा सकता है। वक्ता बीन देयर, दून दैट के सीईओ डा. लोकेश ओहरी ने पारिस्थितिकी तंत्र को बनाए रखने, जैव विविधता का समर्थन करने और मानव उपयोग के लिए पानी की उपलब्धता सुनिश्चित करने के लिए नदी संरक्षण और सूखे से निपटने की जानकारी साझा की।

दूसरे वक्ता एसपीईसीएस के मुख्य पदाधिकारी डा. बृज मोहन शर्मा ने स्थायी भविष्य के लिए पर्यावरणीय चुनौतियों को कम करने के विषय पर जानकारी दी। उन्होंने वर्तमान समय में पर्यावरण परिवर्तन के कारण लोगों के सामने आने वाली चुनौतियों पर अपने अनुभव साझा किये। उन्होंने इसके कारण और भविष्य की ओर निरंतर विकास के साथ वर्तमान स्थिति को कम करने के तरीके भी बताए। एक्जीक्युटिव निदेशक नवदान्य बायोडायवर्सिटी फार्म डा.विनोद भट ने जलवायु परिवर्तन के शमन और अनुकूलन के लिए जैव विविधता आधारित जैविक खेती और स्वदेशी जलवायु फसल विषय पर अपने अनुभव साझा किए। उन्होंने जैविक खेती के क्षेत्र में अपने अनुभव और इसके महत्व को साझा किया।

इस अवसर पर नेशनल एकेडमी ऑफ साइंस, उत्तराखंड चैप्टर ने डा. बृज मोहन शर्मा, स्वामी राम हिमालयन विश्वविद्यालय के डा. दुष्यंत गौड़ को नगद पुरस्कार देकर सम्मानित किया। स्वच्छ व हरा-भरा परिसर के लिए डा. विजेन्द्र चौहान को पुरस्कार दिया गया। कार्यक्रम में निदेशक रिसर्च डा. बिन्दु डे, डा. गणेश कुमार, डा. निक्कु यादव, अभिषेक चंदोला, गरिमा कपूर, डा. स्मिता डिमरी, डा. उज्ज्वल नौटियाल, डा. अरविंद फर्स्वाण, राहुल पांडे, मृदुल डिमरी आदि उपस्थित थे।

हिमालयन कॉलेज ऑफ नर्सिंग लिटरेरी कमेटी की ओर से विश्व पर्यावरण दिवस प्रश्नोत्तरी प्रतियोगिता का आयोजन किया गया, इसमें बीएससी नर्सिंग द्वितीय, चतुर्थ सेमेस्टर और पांचवे सेमेस्टर के 145 विद्यार्थियों ने भाग लिया। नर्सिंग कॉलेज की प्रिंसिपल डा. संचिता पुगाजंडी ने छात्र-छात्राओं को पर्यावरण को संरक्षित करने के लिए प्रेरित किया। इस अवसर पर प्रीति, प्रभा, हीना नेगी व डा. अनुपमा उपस्थित रहे।

Report of Forum on Sustainable Development: Securing a Resilient Future: Sustainability in Reference to Uttarakhand (Under the Banner of G-20 Summit)

On May 31, 2023, The Himalayan School of Biosciences, part of Swami Rama Himalayan University, hosted a one-day forum titled "Sustainable Development: Securing a Resilient Future – Sustainability in Reference to Uttarakhand." The event aligned with the G-20 Summit's focus and aimed to advance discussions on sustainable development in the Himalayan region. Key topics included climate change adaptation, ecosystem services, renewable energy, community-led conservation, and sustainable tourism. Prominent speakers at the forum were Dr. K.K. Pant from IIT Roorkee, Dr. Rajendra Dobhal, and Dr. C.S. Nautiyal from SRHU.

Place of the event: Auditorium, SRHU

Participants: Students and faculty members of different constituent colleges of SRHU

No. of participants: 247

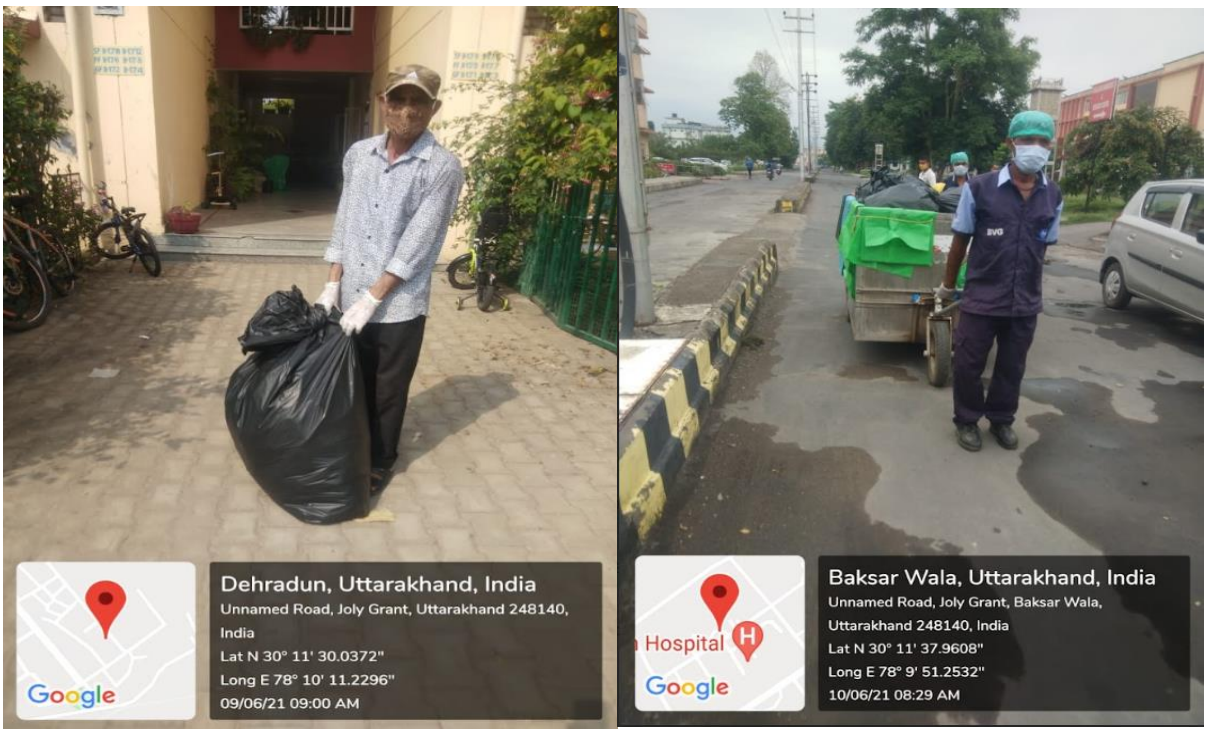
247 Students and faculty members of SRHU attended the 'Forum on Sustainable Development: Securing a Resilient Future: Sustainability in Reference to Uttarakhand', organized by the Himalayan School of Biosciences at SRHU auditorium. The forum focused on sustainable development, climate change adaptation, ecosystem services, renewable energy, community conservation, and sustainable tourism in response to the G-20 Summit.

2. Plastic-free campus

Plastic pollution threatens ecosystems, wildlife, and human health, largely due to the resources required for plastic production and the harmful effects of microplastics. By adopting a plastic-free campus policy, SRHU helps conserve resources like fossil fuels and water while reducing its carbon footprint. This initiative also creates a safer and healthier environment by minimizing plastic waste and its associated health risks. Additionally, SRHU's plastic-free commitment raises awareness about plastic pollution and encourages sustainable alternatives. To further this cause, SRHU has partnered with the NGO "**Social Development for Communities Foundation**" in Dehradun to establish a plastic bank on campus. The collected plastic waste is sent to the **Indian Institute of Petroleum** in Dehradun for recycling into diesel fuel.

3. Solid Waste Management:

The university effectively manages solid waste by segregating biodegradable and non-biodegradable materials at the source, using green and black bins placed throughout the campus. Housekeeping staff collect the waste daily in color-coded bags and transport it to a central collection site. Biodegradable waste is composted on-site to create manure, while a biogas plant generates biogas from cow dung and organic kitchen waste.

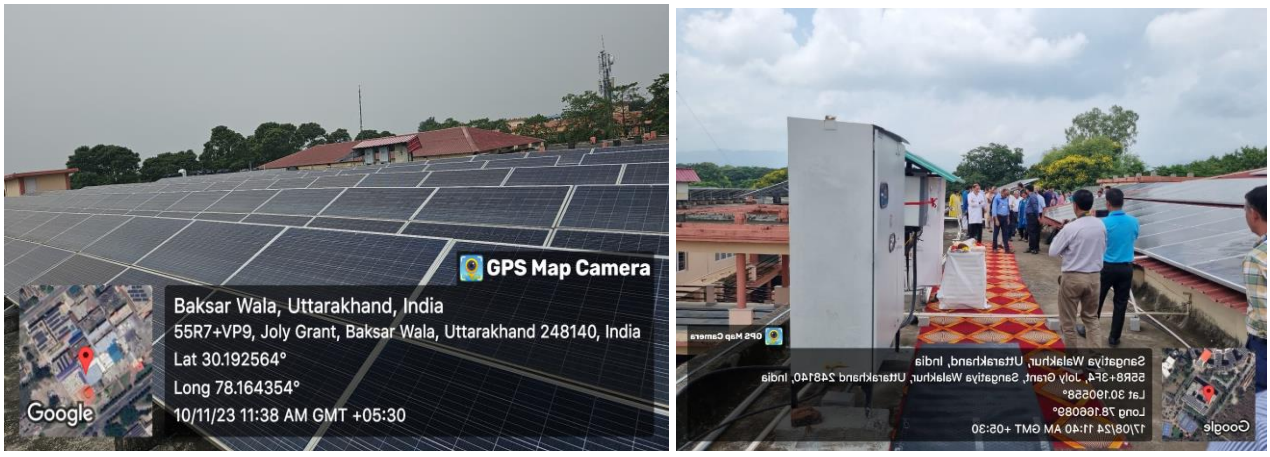


Collection of solid (general) waste from residences and hostels

4. Alternate sources of energy & energy conservation measures

a. Harnessing Solar Energy:

The University has implemented two rooftop solar power plants totalling 1500 KW since 2017. This initiative has reduced SRHU's electricity bills and carbon footprint by generating on-site renewable energy. SRHU has expanded its renewable energy capacity by an additional 1000 KW through a new agreement with M/S Bakshi Engineering Works, Dehradun for another rooftop solar power plant.



Solar panels on the roof of the Himalayan College of Nursing

b. Waste to energy production: Biogas plant

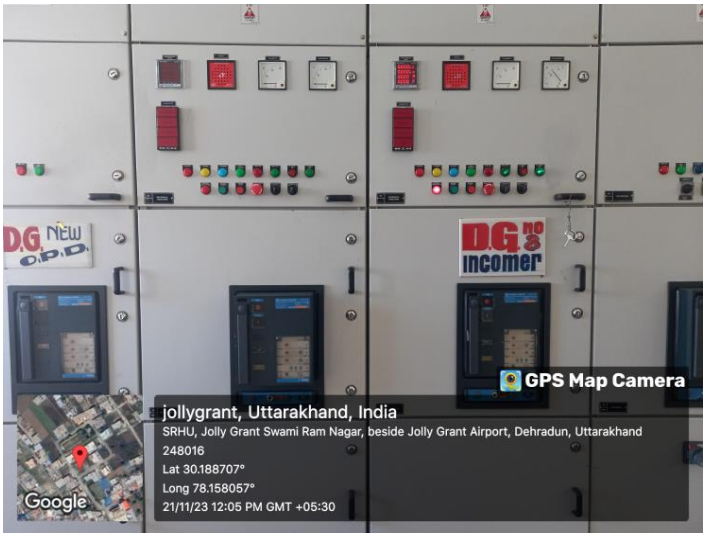
The university has built a 4 M3/day Biogas plant on campus that uses cow dung from its dairy and vegetable waste from the guest house kitchen to produce biogas. This initiative supports national energy-saving efforts by saving 55.2 kgs of LPG monthly (662.4 kgs annually). The biogas produced is used for cooking in the guest house kitchen, promoting sustainability through organic waste recycling.

Biogas plant (Behind the university guest house)

c. Sensor-Based Energy Conservation

Swami Rama Himalayan University (SRHU) is committed to energy conservation with passive infrared (PIR) sensors installed at a few places to control lighting based on movement, minimizing energy usage. The nine Diesel Generator Set panels near the main hospital feature Automatic Mains Failure (AMF) and synchronization systems with load balancing. This setup efficiently manages power distribution, activating generators as needed to match the electrical load, thereby optimizing energy efficiency campus-wide.

Motion based sensor lights at HSST



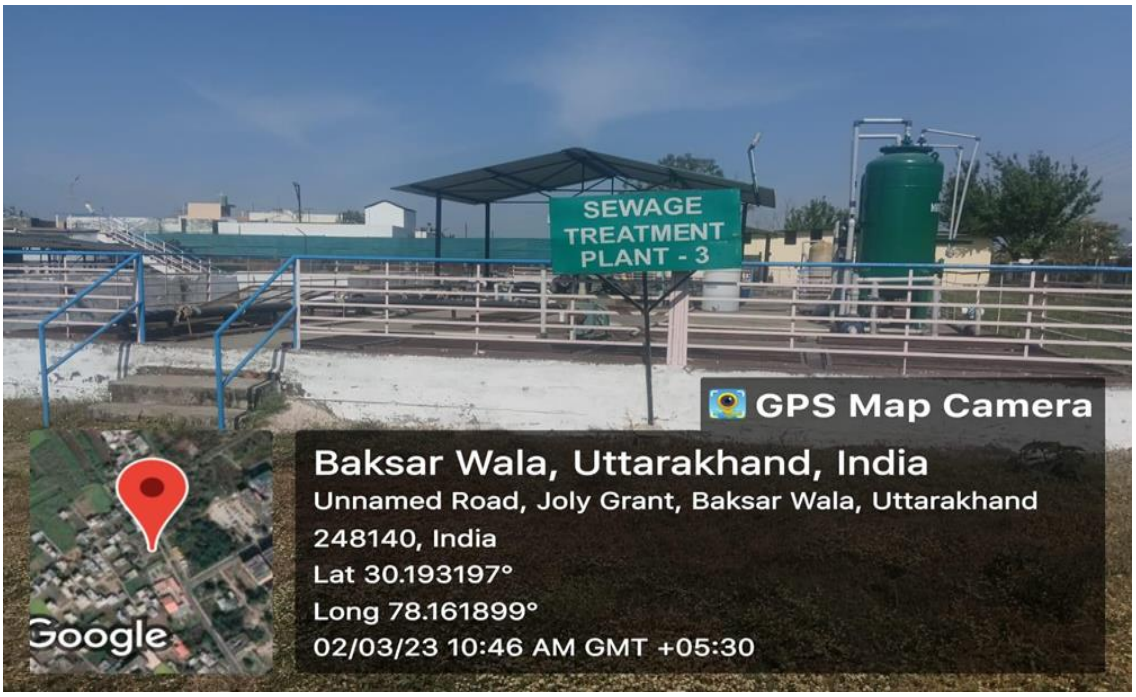
Diesel Generator Set panels with Automatic mains failure (AMF) and load balancing (Behind Main Hospital

d. Use of LEDs/ power efficient equipment

SRHU has embraced LED lighting to enhance sustainability on campus, significantly reducing electricity consumption and its carbon footprint by up to 80%. The university employs smart lighting systems with sensors and automated controls to further minimize energy wastage. Additionally, SRHU utilizes Brushless Direct Current (BLDC) fans known for superior energy efficiency and comfort. These efforts also extend to the adoption of BEE star-rated air conditioners, promoting energy savings, improved indoor comfort, and redirecting cost savings towards sustainability initiatives or academic programs.

5. Liquid waste management : STP

The sewage from the campus, including the hospital, undergoes treatment through an advanced Sewage Treatment Plant (STP) with a capacity of 1 MLD employing MBBR technology and extended aeration-activated sludge process. The treated water meets quality standards set by the state pollution control board and is used for irrigation in parks and green areas on campus, ensuring environmental compliance and sustainability.



Sewage Treatment Plant (Capacity: 1 MLD)

6. Wastewater treatment: ETP

The university has prioritized sustainability with the establishment of a 90 KLD Effluent Treatment Plant (ETP) on campus. This plant addresses the significant daily wastewater generated from various campus activities, including laboratories and laundry. By treating this wastewater, SRHU mitigates environmental risks and ensures public health and campus aesthetics are maintained. The treated water is efficiently recycled for non-potable uses such as irrigation, conserving valuable freshwater resources and supporting SRHU's commitment to environmental stewardship.

Effluent Treatment Plant (Capacity: 90 KLD)

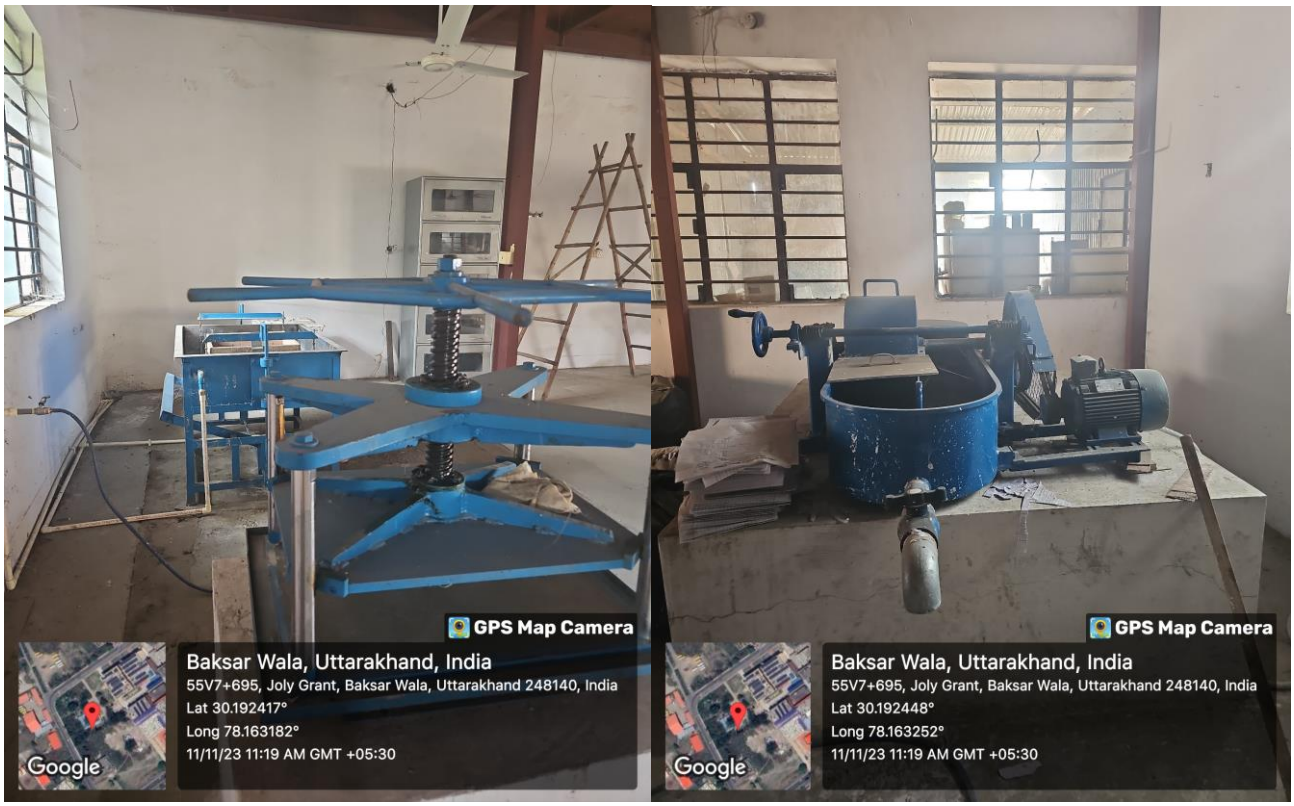
7. Conservation of water (Rain Water Harvesting)

Rainwater from the medical college building's roof is collected and stored in a 150 KL underground tank. This water is used for toilets in the medical and nursing colleges, as well as for cleaning purposes. Excess rainwater from the campus is directed to infiltration wells across fourteen locations, allowing it to recharge underground aquifers. This sustainable practice supports groundwater management and conservation efforts on campus.

Rainwater harvesting pits with filter bed recharge near Cardiac OPD building

8. Recycling and waste management

SRHU operates an 8 kg per day waste paper recycling plant on campus to manage paper waste from various offices and schools. Recycled handmade paper is used to create envelopes used within university offices. Additionally, biodegradable waste collected across the campus is processed in a compost pit to produce organic fertilizer for the university nursery and gardens. Furthermore, SRHU operates its own Bio-Gas plant near the university guest house, utilizing cow dung from the campus dairy and vegetable waste from the guest house kitchen to produce biogas for cooking and organic waste recycling purposes.

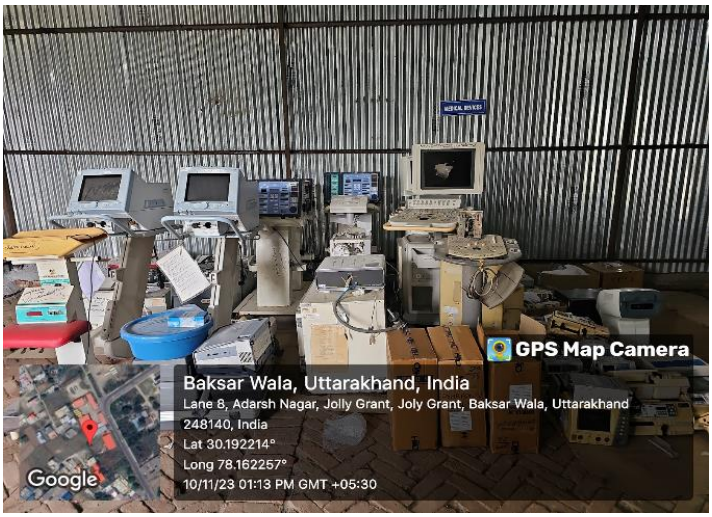


Waste paper recycling unit

9. E-Waste Store

Electronic waste, or e-waste, is a rapidly growing global concern. With the ever-increasing rate of technological advancements, electronic devices have a shorter lifespan, leading to more electronic waste being generated. Improper disposal of e-waste can have detrimental effects on the environment, as it often contains hazardous materials such as lead, mercury, and cadmium. To combat this issue, SRHU has taken a proactive approach by introducing the E-Waste Store.

The E-Waste Store at SRHU serves as a dedicated facility for the proper disposal and recycling of electronic devices. Located conveniently on campus, it offers a hassle-free solution for students, faculty, and staff to dispose of their old and unwanted electronic equipment.



10. Landscaping with trees and plants

Regd. : 140/2014-15

Anmol Paryavaran Sanrakshan Samiti

(Green Solution for E-Waste Management certified by UEPPCB)

Facility of E-Waste Collection, Storage, Dismantling, Recycling, Refurbishing & Disposal

Regd. Off. : 119, Old Nehru Colony, Dehradun-248001

Works at : Kh. No. 85/2, 87/1, Daulatpur, Hajratpur Urf Budhwasahid Tehsil Roorkee, Distt. Haridwar

Email : apssdoon@gmail.com

Membership Certificate

This is Certify that M/s Himalayan Institute Hospital Trust,

Swami Ramnagar, Jolly Grant, Dehradun, 248016

is a member of ANMOL PARYAVARAN SANRAKSHAN SAMITI with membership No. (20) dated 15.11.22

Date 15/11/2022

This Certificate is valid upto 31 March 2026

Vinay

President

Secretary


GPS Map Camera
Lat 30.191026, Long 78.168711
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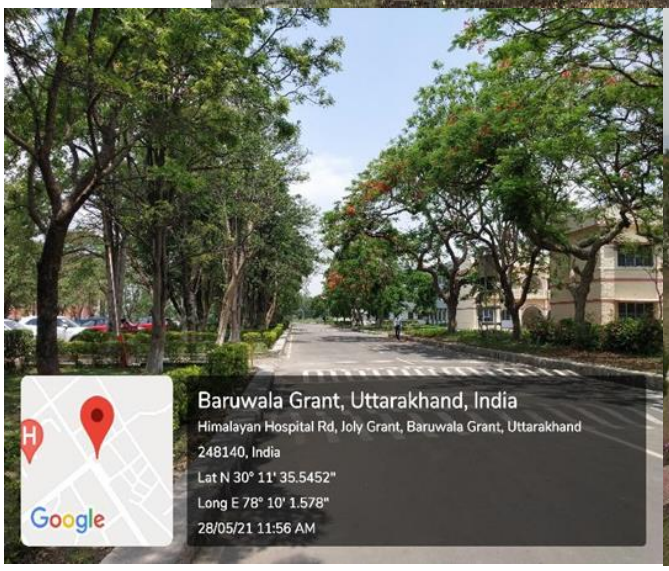
Baruwala Grant, Uttarakhand, India
Himalayan Hospital Rd, Joly Grant, Baruwala Grant, Uttarakhand 248140, India
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28/05/21 11:56 AM
Google


Sangatiya Walakhur, Uttarakhand, India
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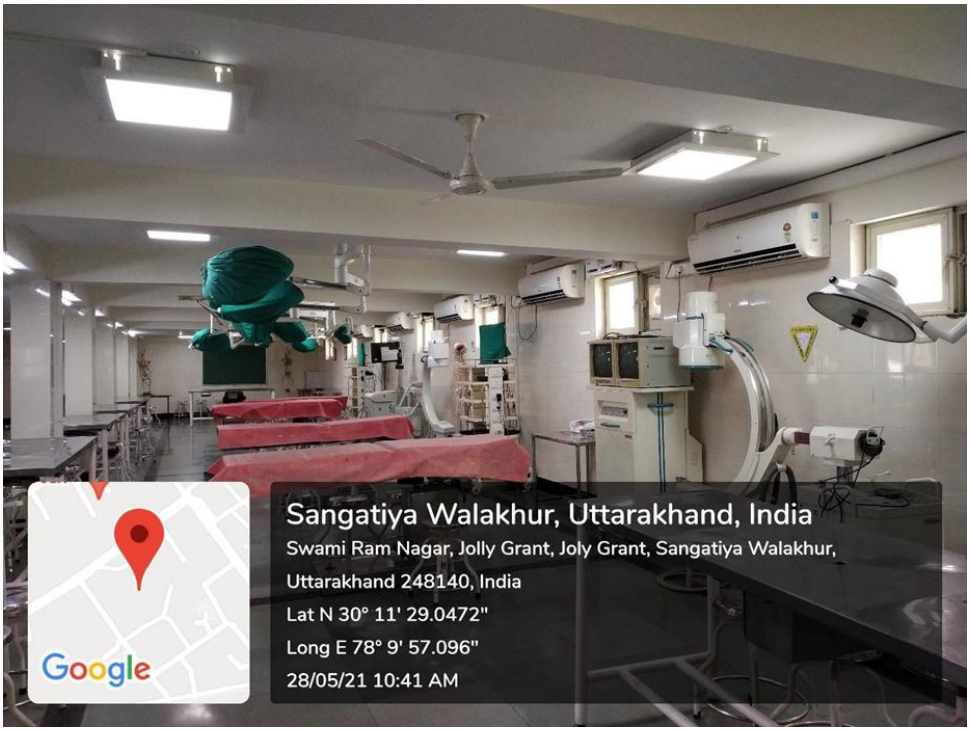
Google

11. Uses of BEE star-rated Air conditioners

In the pursuit of creating a sustainable and environmentally conscious campus, SRHU has taken a significant step by incorporating BEE (Bureau of Energy Efficiency) star-rated air conditioners. This initiative not only aligns with SRHU's commitment to environmental responsibility but also offers numerous benefits in terms of energy efficiency, cost savings, and improved indoor comfort. The reduced energy consumption of BEE star-rated air conditioners results in lower electricity bills for SRHU. This financial benefit can be redirected toward other campus sustainability initiatives or academic programs.



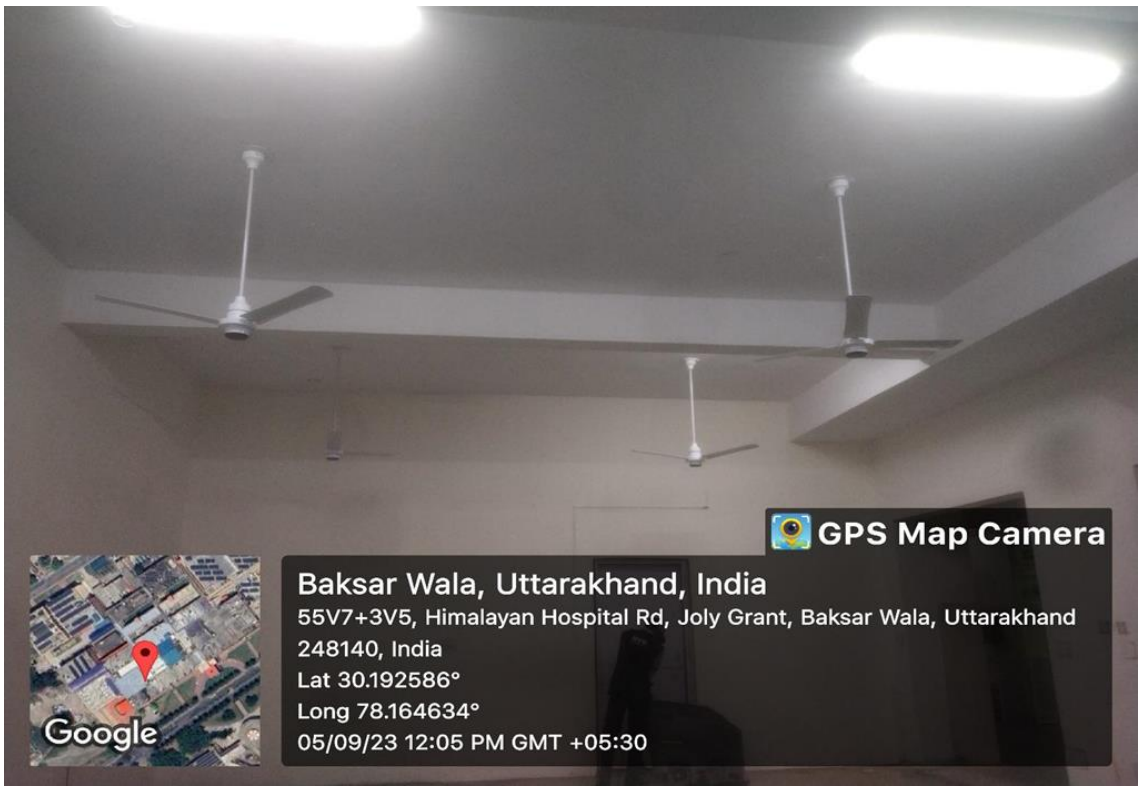
12. Electric vehicle

The primary benefit of integrating electric vehicles into the SRHU campus is the substantial reduction in greenhouse gas emissions. By replacing fossil fuel-powered vehicles with EVs, SRHU has significantly decreased its carbon footprint, contributing to a cleaner and healthier environment.

Electric vehicles serve as an efficient means of transportation within the campus for faculty, and staff. Campus shuttles, maintenance vehicles. SRHU can provide charging infrastructure at strategic locations to encourage the adoption of EVs.

13. Uses of BLDC fans

SRHU has embraced modern technology to enhance energy efficiency and comfort across its campus. One noteworthy advancement in this endeavor is the adoption of Brushless Direct Current (BLDC) fans. One of the primary reasons SRHU has chosen to employ BLDC fans is their exceptional energy efficiency. Compared to traditional AC fans, BLDC fans consume significantly less electricity while delivering the same or even superior airflow. This energy efficiency translates into substantial cost savings for the university, contributing to a more sustainable campus operation. BLDC fans are known for their durability and low maintenance requirements. Unlike traditional fans with brushed motors that may require frequent maintenance and replacement, BLDC fans have a longer lifespan and are less prone to wear and tear. This translates into reduced maintenance costs and less downtime for repairs.



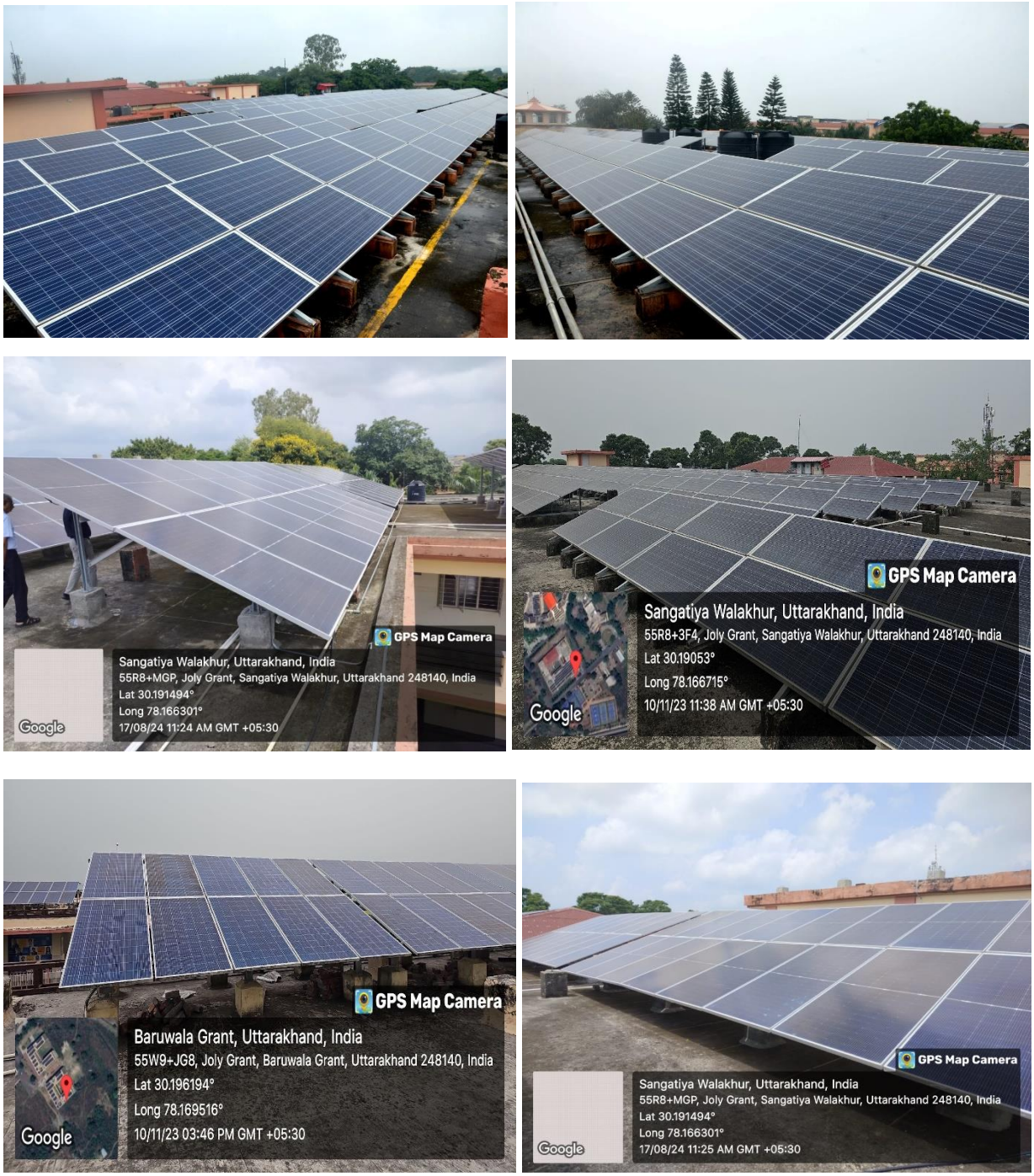
BLDC Fans

14. Solar power plant

SRHU has made significant strides in integrating renewable energy technologies to promote sustainability and reduce environmental impact. The primary renewable energy source installed on campus is solar power, harnessed through multiple rooftop solar photovoltaic (PV) installations. Since 2017, the university has commissioned three rooftop solar power plants with a combined capacity of 2,500 kW, covering an area of approximately 23,700 square meters. These solar PV systems capture sunlight and convert it into clean, electricity, significantly contributing to the campus's energy requirements. By generating power on-site, the university reduces its dependence on fossil fuel-based electricity, thereby decreasing greenhouse gas emissions and its overall carbon footprint.

To optimize cost-effectiveness and sustainability, the university has partnered with a renewable energy company ReNew Solar Power Ltd, through a power purchase agreement (PPA). This agreement allows the institution to procure electricity at subsidized rates, resulting in substantial savings on energy bills while supporting green energy production. Recognizing the positive impact of these installations, the university further expanded its renewable capacity by an additional 1,000 kW, reinforcing its commitment to sustainable campus operations. Over the past three years, these solar power plants have collectively generated over 6.1 million kWh of clean electricity, which accounts for nearly 14% of the campus's total energy consumption and cost savings of approximately Rs. 1.96 crore during this period. An important feature of this solar initiative is the ability to export surplus electricity back to the grid. The campus has contributed excess power in recent years, including over 80,000 kWh in 2021-22,

121,000 kWh in 2022-23, and 115,000 kWh in 2023-24. This surplus not only supports the local electricity grid but also advances the university's goal of being a net contributor to sustainable energy in the region. Rooftop solar power is the cornerstone of the university's renewable energy portfolio, demonstrating a clear commitment to environmental stewardship, cost savings, and climate change mitigation. The institution continues to explore further opportunities to expand renewable energy adoption, integrating innovative solutions to build a greener, more sustainable campus for future generations.



Rooftop solar panels at Swami Rama Himalayan University harnessing renewable energy to promote sustainability and reduce carbon footprint.

Installation of New Solar Power Plant at Swami Rama Himalayan University

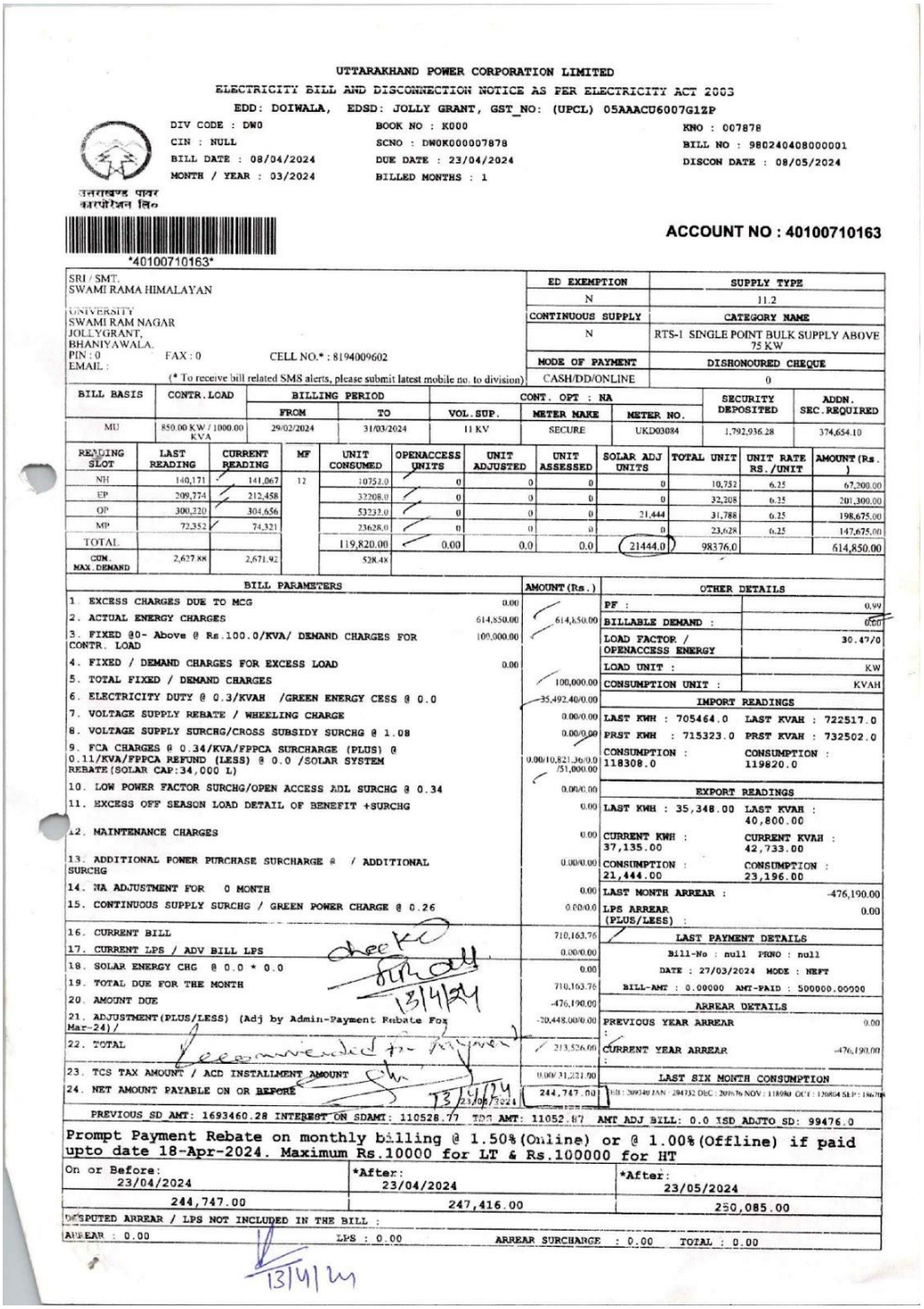
A new rooftop solar power plant was installed on 17 August 2024 in the university campus as part of ongoing sustainability efforts. The project, implemented through a Power Purchase Agreement (PPA) with M/S Baskhi Engineering Works, features an on-grid installation with a total capacity of 1 megawatt (MW). Equipped with monocrystalline dual-sided solar panels, each rated at 545 watts, the plant spans approximately 4,500 square meters on the university campus. It is expected to generate around 136,435 kilowatt-hours (kWh) of clean energy each month. This addition significantly boosts SRHU's renewable energy capacity, helping to reduce dependence on conventional fossil fuels and advance its commitment to environmental sustainability.

Inauguration of the new 1 MW rooftop solar plant at SRHU, advancing sustainable energy goals.

Inauguration of the new 1 MW rooftop solar plant at SRHU, advancing sustainable energy goals.

Links of Power Purchase Agreement (PPA) and Invoice of solar system installed in the university

Description	Links
Agreement between SRHU and BOSCH for Rooftop PV Solar System (500 kWp)	1(Agreement Bosch and SRHU).pdf
Power Purchase Agreement between SRHU and ReNew Solar Energy Pvt, Ltd. for the Solar Photovoltaic Program Power	2 (Power Purchase Agreement with ReNew Solar Energy Pvt Ltd)).pdf
Power Purchase Agreement between SRHU and Bakshi Engineering Works for the Solar Photovoltaic Program Power	3(Bakshi Engineering -Solar Power Agreement srhu).pdf
Bills/Invoices of PV Solar System by BOSCH Ltd.	4(Bosch Invoice).pdf.pdf
Project completion report of 500 kWp Rooftop PV Solar System	5 (Bosch Project Completion Document).pdf
Handover- Takeover Certificate of 500 kWp Solar power Plant	6(Bosch- Hand over -take over).pdf
Inspection of 500 kW solar plant and Lightning Arrester by Uttarakhand Power Corporation Limited	7(Inspection of solar plant by UPCL).pdf



UTTARAKHAND POWER CORPORATION LIMITED

ELECTRICITY BILL AND DISCONNECTION NOTICE AS PER ELECTRICITY ACT 2003

EDD: DOIWALA, EDSD: JOLLY GRANT, GST_NO: (UPCL) 05AAACU6007G1ZP

उत्तराखण्ड पावर कारपोरेशन लि०

DIV CODE : DW0 | BOOK NO : K000 | KNO : 007878

CIN : NULL | SCNO : DW0K000007878 | BILL NO : 980240408000001

BILL DATE : 08/04/2024 | DUE DATE : 23/04/2024 | DISCON DATE : 08/05/2024

MONTH / YEAR : 03/2024 | BILLED MONTHS : 1

40100710163

ACCOUNT NO : 40100710163

SRI / SMT.
SWAMI RAMA HIMALAYAN

UNIVERSITY
SWAMI RAM NAGAR
JOLLYGRANT,
BHANIYAWALA.
PIN : 0 FAX : 0 CELL NO.* : 8194009602
EMAIL :

(* To receive bill related SMS alerts, please submit latest mobile no. to division)

ED EXEMPTION	SUPPLY TYPE
N	11.2
CONTINUOUS SUPPLY	CATEGORY NAME
N	RTS-1 SINGLE POINT BULK SUPPLY ABOVE 75 KW
MODE OF PAYMENT	DISHONOURED CHEQUE
CASH/DD/ONLINE	0

BILL BASIS	CONTR. LOAD	BILLING PERIOD FROM	BILLING PERIOD TO	CONT. OPT : NA VOL. SUP.	METER MAKE	METER NO.	SECURITY DEPOSITED	ADDN. SEC. REQUIRED
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READING SLOT	LAST READING	CURRENT READING	MF	UNIT CONSUMED	OPENACCESS UNITS	UNIT ADJUSTED	UNIT ASSESSED	SOLAR ADJ UNITS	TOTAL UNIT	UNIT RATE RS./UNIT	AMOUNT (Rs.)
NH	140,171	141,067	12	10752.0	0	0	0	0	10,752	6.25	67,200.00
EP	209,774	212,458		32208.0	0	0	0	0	32,208	6.25	201,300.00
OP	300,220	304,656		53233.0	0	0	0	21,444	31,788	6.25	198,675.00
MP	72,352	74,321		23628.0	0	0	0	0	23,628	6.25	147,675.00
TOTAL				119,820.00	0.00	0.0	0.0	21444.0	98376.0		614,850.00
CON. MAX. DEMAND	2,627.88	2,671.92		528.4x							

BILL PARAMETERS		AMOUNT (Rs.)
1. EXCESS CHARGES DUE TO MCG	0.00	
2. ACTUAL ENERGY CHARGES	614,850.00	614,850.00
3. FIXED @0- Above @ Rs.100.0/KVA/ DEMAND CHARGES FOR CONTR. LOAD	100,000.00	
4. FIXED / DEMAND CHARGES FOR EXCESS LOAD	0.00	
5. TOTAL FIXED / DEMAND CHARGES		100,000.00
6. ELECTRICITY DUTY @ 0.3/KVAH /GREEN ENERGY CESS @ 0.0		35,492.40/0.00
7. VOLTAGE SUPPLY REBATE / WHEELING CHARGE		0.00/0.00
8. VOLTAGE SUPPLY SURCHG/CROSS SUBSIDY SURCHG @ 1.08		0.00/0.00
9. FCA CHARGES @ 0.34/KVA/FPPCA SURCHARGE (PLUS) @ 0.11/KVA/FPPCA REFUND (LESS) @ 0.0 /SOLAR SYSTEM REBATE (SOLAR CAP:34,000 L)		0.00/10,821.36/0.0 /51,000.00
10. LOW POWER FACTOR SURCHG/OPEN ACCESS ADL SURCHG @ 0.34		0.00/0.00
11. EXCESS OFF SEASON LOAD DETAIL OF BENEFIT +SURCHG		0.00
12. MAINTENANCE CHARGES		0.00
13. ADDITIONAL POWER PURCHASE SURCHARGE @ / ADDITIONAL SURCHG		0.00/0.00
14. NA ADJUSTMENT FOR 0 MONTH		0.00
15. CONTINUOUS SUPPLY SURCHG / GREEN POWER CHARGE @ 0.26		0.00/0.0
16. CURRENT BILL		710,163.76
17. CURRENT LPS / ADV BILL LPS		0.00/0.00
18. SOLAR ENERGY CHG @ 0.0 * 0.0		0.00
19. TOTAL DUE FOR THE MONTH		710,163.76
20. AMOUNT DUE		-476,190.00
21. ADJUSTMENT(PLUS/LESS) (Adj by Admin-Payment Rebate For Mar-24)/		-20,448.00/0.00
22. TOTAL		213,526.00
23. TCS TAX AMOUNT / ACD INSTALLMENT AMOUNT		0.00/ 31,221.00
24. NET AMOUNT PAYABLE ON OR BEFORE		244,747.00

OTHER DETAILS	
PF :	0.99
BILLABLE DEMAND :	0.00
LOAD FACTOR / OPENACCESS ENERGY	30.47/0
LOAD UNIT :	KW
CONSUMPTION UNIT :	KVAH

IMPORT READINGS	
LAST KWH : 705464.0	LAST KVAH : 722517.0
PRST KWH : 715323.0	PRST KVAH : 732502.0
CONSUMPTION : 118308.0	CONSUMPTION : 119820.0

EXPORT READINGS	
LAST KWH : 35,348.00	LAST KVAH : 40,800.00
CURRENT KWH : 37,135.00	CURRENT KVAH : 42,733.00
CONSUMPTION : 21,444.00	CONSUMPTION : 23,196.00

LAST MONTH ARREAR :	-476,190.00
LPS ARREAR (PLUS/LESS) :	0.00

LAST PAYMENT DETAILS

Bill-No : null PRNO : null

DATE : 27/03/2024 MODE : NEFT

BILL-AMT : 0.00000 AMT-PAID : 500000.00000

ARREAR DETAILS

PREVIOUS YEAR ARREAR :	0.00
CURRENT YEAR ARREAR :	-476,190.00

LAST SIX MONTH CONSUMPTION

JUN : 309340 JAN : 294732 DEC : 209176 NOV : 118980 OCT : 120864 SEP : 186705

PREVIOUS SD AMT: 1693460.28 INTEREST ON SDAMT: 110528.77 TDS AMT: 11052.67 ANT ADJ BILL: 0.0 ISD ADJTO SD: 99476.0

Prompt Payment Rebate on monthly billing @ 1.50%(Online) or @ 1.00%(Offline) if paid upto date 18-Apr-2024. Maximum Rs.10000 for LT & Rs.100000 for HT

On or Before: 23/04/2024	*After: 23/04/2024	*After: 23/05/2024
244,747.00	247,416.00	250,085.00

DISPUTED ARREAR / LPS NOT INCLUDED IN THE BILL :

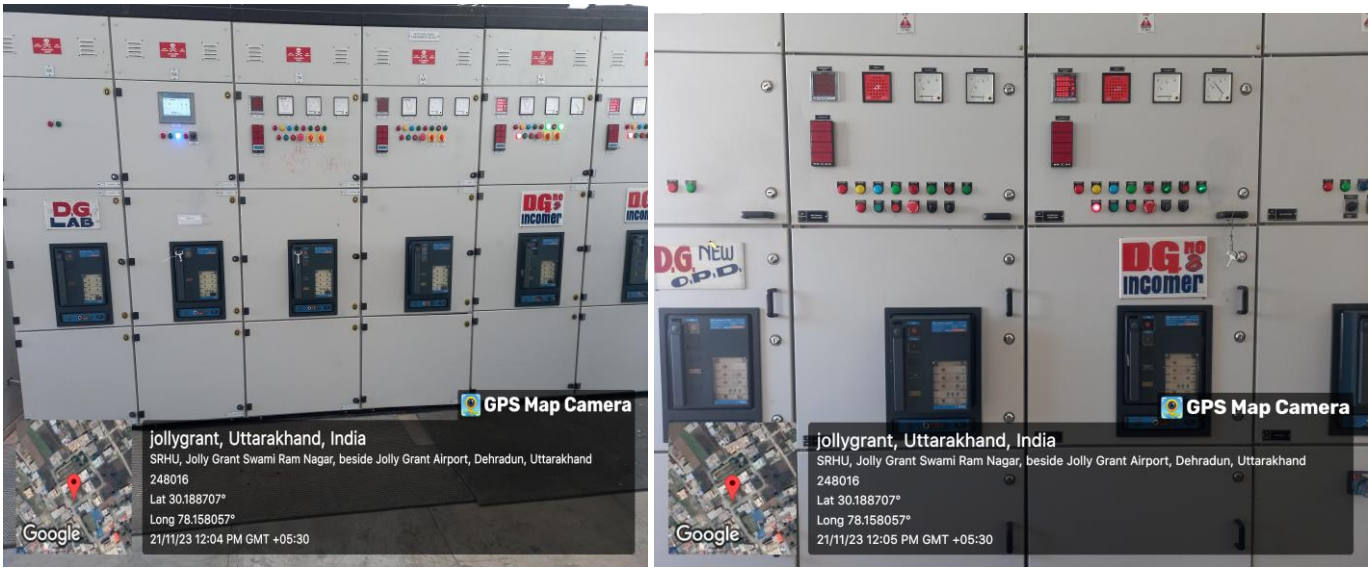
ARREAR : 0.00 LPS : 0.00 ARREAR SURCHARGE : 0.00 TOTAL : 0.00

Subsidy bill from Uttarakhand Power Corporation Limited

15. Energy Efficient Buildings

SRHU is actively committed to enhancing energy efficiency across its campus buildings. To support this, several areas are equipped with Passive Infrared (PIR) sensors that detect motion by measuring infrared light emitted by objects, helping to optimize lighting usage and reduce energy waste. Additionally, the university's nine Diesel Generator (DG) sets are managed through Automatic Mains Failure (AMF) panels with auto-synchronization and load balancing capabilities. This system ensures that only the necessary number of DG sets operate based on the campus's power demand—for instance, if five DG sets can handle the load, the remaining four remain off—thereby conserving fuel and reducing energy consumption.

Motion based sensor lights at Engineering college building and MBBS Boys Hostel wash room

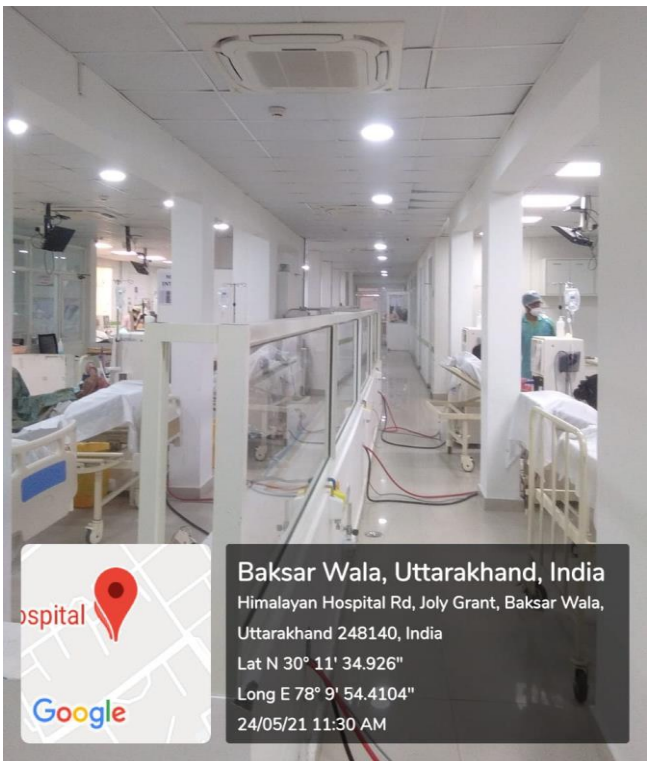


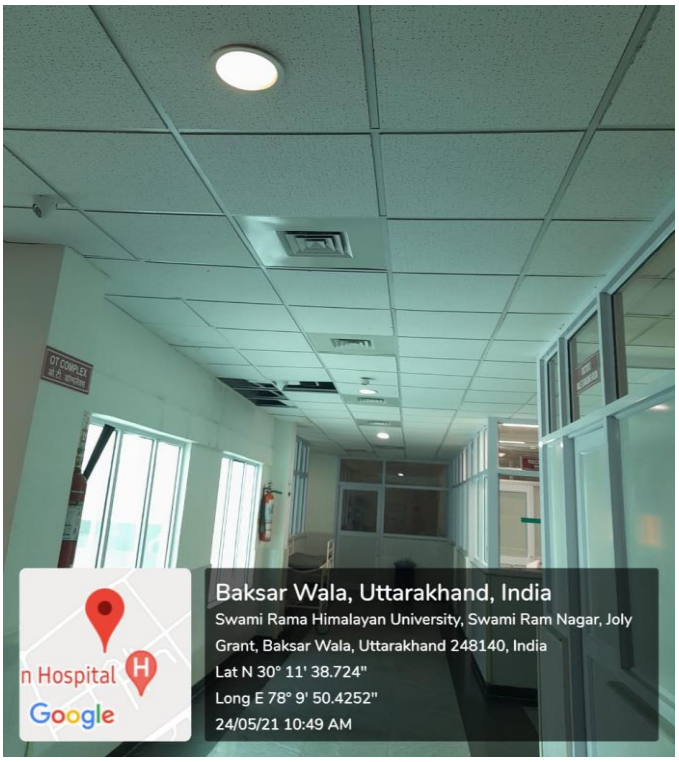
Diesel Generator Set panels with Automatic mains failure (AMF) and load balancing in the university campus

16. Renewable Energy Installations

SRHU is dedicated to promoting renewable energy installations across its campus. SRHU has adopted LED lights for sustainable campus lighting, reducing electricity consumption and carbon footprint. LEDs consume up to 80% less electricity, reducing greenhouse gas emissions. The university has also implemented smart lighting solutions using sensors and automated controls to minimize energy waste. Brushless Direct Current (BLDC) fans are also adopted for improved energy efficiency and comfort. BLDC fans consume less electricity and deliver superior airflow, resulting in cost savings and a more sustainable campus operation. Additionally, SRHU has implemented BEE star-rated air conditioners, promoting energy efficiency, cost savings, and improved indoor comfort. Lower electricity bills can be redirected towards sustainability initiatives or academic programs. Through these initiatives, SRHU actively supports sustainable energy conservation and environmental responsibility.

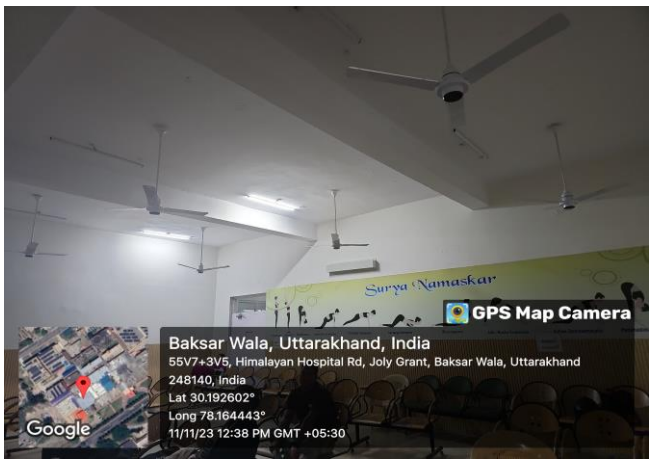
LED light at security post, near Medical College



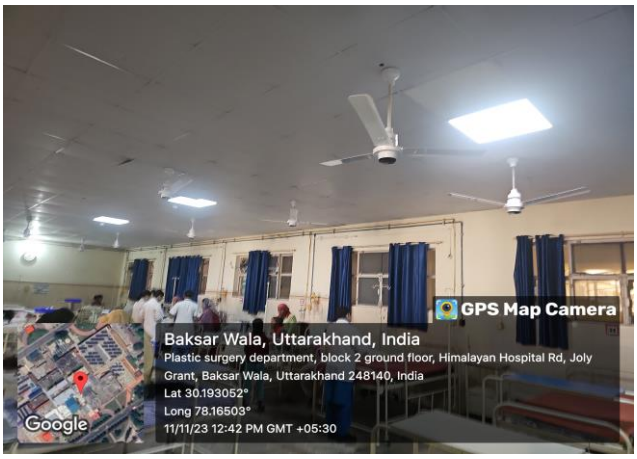


LED lights at ICU and OT complex at Himalayan Hospital, SRHU

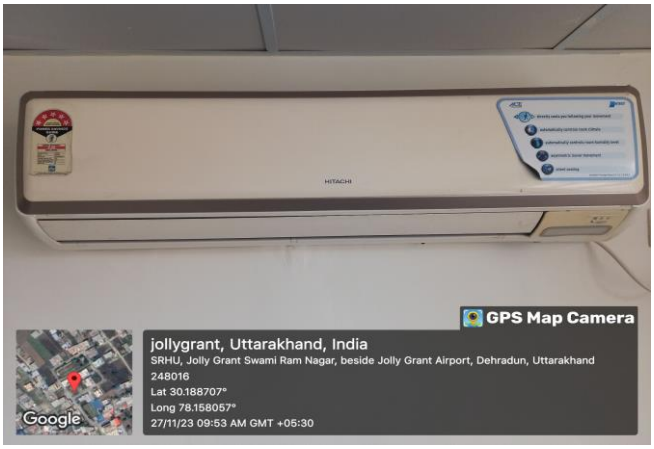
LED Street lights at the university premises



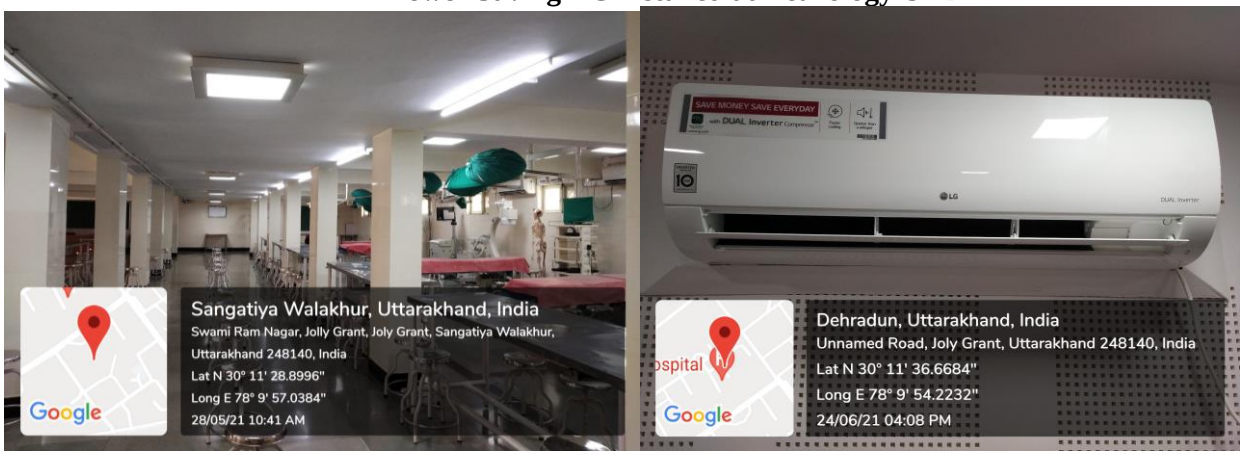
BLDC Fans at Radiology Waiting Area



BLDC Fans at Obstetric ward, Himalayan Hospital



Power Saving AC installed at Neurology OPD



Power Saving AC at Audiometry room, Himalayan Hospital

Rooftop Solar Energy and Sustainability Progress

SRHU is proactively addressing climate change by embracing sustainable energy solutions. The university has installed three rooftop solar power plants with a combined capacity of 2,500 KW, covering an area of approximately 23,695.69 sq meters since 2017. Through a power purchase agreement with ReNew Solar Power Ltd, SRHU benefits from subsidized electricity rates, enabling significant cost savings by generating clean energy on-site. This initiative not only reduces electricity bills but also minimizes the university's carbon footprint by lowering dependence on fossil fuels and cutting greenhouse gas emissions. Building on this success, SRHU has further expanded its renewable energy capacity by an additional 1,000 KW, reinforcing its commitment to eco-friendly campus operations.

Over the past three years, Swami Rama Himalayan University's rooftop solar power plants have generated a total of **6,112,417 kWh** of clean energy, resulting in cost savings of approximately **Rs. 1.96 crore**. This renewable energy accounts for **13.99%** of SRHU's total electrical demand of 43,682,417 kWh over these three years.

Additionally, surplus electricity generated by the solar plants was exported back to the grid as follows:

2021-2022: 80,160 kWh;

2022-2023: 1,21,260 kWh;

2023-2024: 1,14,796 kWh

This demonstrate SRHU's strong commitment to sustainability and energy efficiency through renewable energy adoption.

Rooftop solar panels at Swami Rama Himalayan University harnessing renewable energy to promote sustainability and reduce carbon footprint

Installation of New Solar Power Plant at Swami Rama Himalayan University

On 17 August 2024, Swami Rama Himalayan University (SRHU) commissioned a new rooftop solar power plant. This project was executed under a Power Purchase Agreement (PPA) with M/S Baskhi Engineering Works. The solar plant is an on-grid rooftop installation with an installed capacity of 1 megawatt (MW). It uses monocrystalline dual-side solar panels, each with a capacity of 545 watts. The plant covers an approximate area of 4,500 square meters on the university campus. The estimated energy production from this solar power plant is approximately 136,435 kilowatt-hours (kWh) per month. This initiative further strengthens SRHU's commitment to sustainability by increasing the generation of clean, renewable energy and reducing reliance on conventional fossil fuels.

Inauguration of the new 1 MW rooftop solar plant at SRHU, advancing sustainable energy goals.

Biogas Plant Installation at SRHU

A 4 m^3/day biogas plant has been installed on campus that produces renewable energy by converting vegetable waste from the guest house kitchen and cow dung from the university dairy into biogas. This system saves approximately 55.2 kg of LPG monthly (662.4 kg annually), supporting national energy conservation goals. The biogas is utilized for cooking in the guest house kitchen, promoting sustainability through the efficient reuse of organic waste and reducing reliance on fossil fuels.

Biogas plant at Swami Rama Himalayan University converting organic waste into clean cooking fuel

Offsetting Emissions

Key Tree Plantation Initiatives at SRHU

SRHU has been actively engaged in environmental conservation through various tree plantation drives and sustainability initiatives. These efforts aim to enhance biodiversity, promote ecological balance, and foster community involvement. The university actively conducts plantation drives throughout the year to promote environmental sustainability. These drives are organized on significant occasions such as Independence Day, the Harela festival, World Environment Day, and during various community outreach programs. Through these efforts, the university fosters ecological awareness, enhances campus greenery, and engages students and local communities in conservation activities.

Plantation drives at SRHU promoting environmental awareness

Dehradun | Dehradun, 5 June, 2022 | www.garhwalpost.in | Garhwal Post | 5

SRHU Rededicates Itself Towards Environmental Sustainability On World Environment Day

Swami Rama Himalayan University (SRHU) Jolly Grant is well entrenched today on its sustainability journey, after having set up a large network of initiatives over the past many years.

By OUR STAFF REPORTER

DEHRADUN, 4 Jun: Conservation of environmental resources requires critical thinking and sustainable waste practices. With this as guiding light SRHU launched several institutional activities and emerged as a model university.

In the 'green university campus' of about 200 acres, various schemes have been put in placefor disposal of plastic waste, apart from water and energy conservation measures.

Importantly efforts have been going on for water conservation at the University for over two decades. In the midst of celebrations marking World Environment Day, Vice Chancellor Dr. Vijay Dhasmana stated that it augurs well that many institutes are considering the importance of water today. But, a separate Water and Sanitation (WATSAN) department was formed at SRHU for water supply and conservation almost 23 years ago. Since then, Team WATSAN has transported drinking water to remote and hundreds of villages in Uttarakhand; seven lakh liters of water daily.

He added that a sewage treatment plant (STP) constructed at a cost ofRs 1.25 crore approximately has been set up at the SRHU campus. "Seven lakh liters of water is treated daily through this plant. The treated water is again used for irrigation and horticulture in the campus. Also, waterless urinals manufactured with state-of-the-art technology are being installed in public toilets. So far more than 150 waterless urinals have been installed. Usually from a urinal, we save about 1.50 lakh liters of water every year from being wasted."

Dr. Dhasmana further revealed that 12 rainwater harvesting recharge pits have been made under the scheme for conservation of rainwater. With all these, about 40 crore liters of rainwater can be harnessed.

Seeing the achievements in the field of water conservation, the Ministry of Jal Shakti, Government of India has designated the institute as a sector partner. 40 percent of the electricity requirement is being met using solar energy. The first step in this direction was taken in the year 2007, realizing the importance of energy conservation. Solar water heater panels were installed in all hostels including Himalayan Hospital, Cancer Research Institute. "We joined the National Solar Mission in the year 2017. Under this, 500-kilowatt roof top solar panels were installed in Nursing and Medical college. At present, 1500-kilowatt solar panels have been installed in the roofs of various buildings of the university. So far, SRHU has saved about 68,51,600 kilowatts of electricity. With the help of solar panels, the university is meeting 40 percent demand of electricity with solar energy. There has been a decrease in carbon emissions by about 1455 tonnes. This is a record compared to any institute in Uttarakhand", he averred.

Further still a plastic bank has been created in SRHU, in an effort towards single use plastic eradication. Staff members and students are made aware in this regard at fixed time intervals. So far, 800 kg of plastic waste has been sent to IIP for disposal where 70 percent of the plastic waste will be recycled and used to make diesel.

A large plantation drive is also conducted from time to time within the university campus, under the 'Go Green Campus' campaign.

Wastepaper recycling machines are on the anvil at SRHU. Dr. Dhasmana further asserted, "If the demand for paper and other stationery is met without cutting the trees, then nothing can be better. The paperless functioning system has been adopted in the university, but despite this, there are many such works in which the use of paper becomes mandatory. Therefore, we are going to set up a plant to recycle the waste in the university. Envelopes, cards and file covers can also be prepared. This will also reduce the expenditure on paper, file covers and envelopes used in the institute."

Plantation drives at SRHU promoting environmental awareness

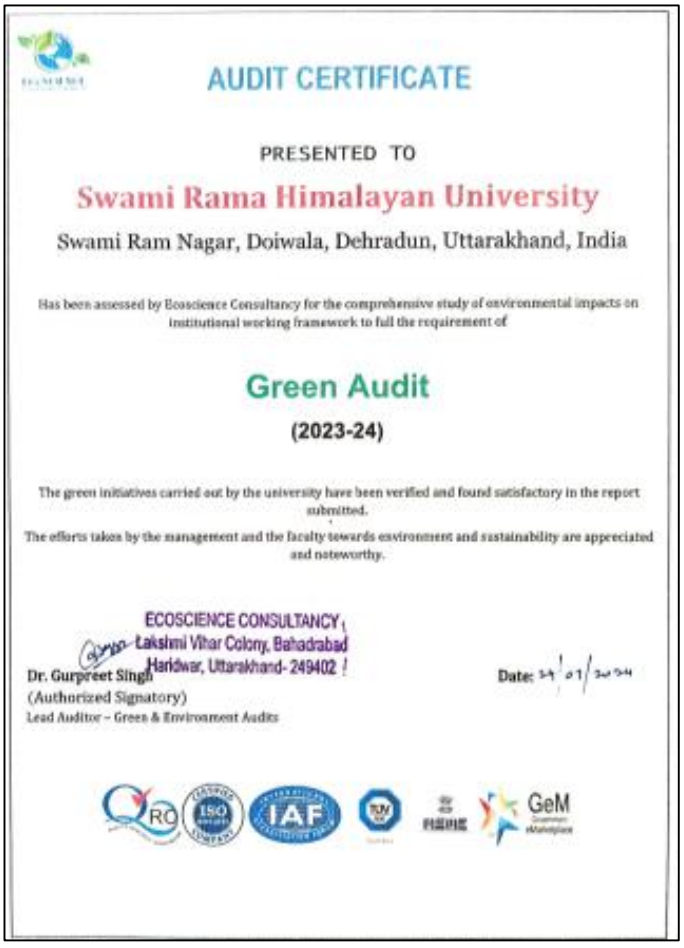
SRHU Honored with Renewable Energy Champion Award for Emission Reduction Efforts

SRHU received the Renewable Energy Champion Award at the 3rd CII Northern Region Green Practices Awards 2024. The university's 1,500 kW rooftop solar plant and biogas system help meet its energy needs while offsetting around 1,455 tons of carbon emissions annually. This recognition highlights SRHU's strong commitment to sustainability and its role in reducing greenhouse gas emissions through renewable energy initiatives.

Certificate awarded to the SRHU for Renewable Energy Champion Award at the 3rd CII Northern Region Green Practices Awards

Green Audit Certificate

SRHU has been awarded a Green Audit Certificate in recognition of its commitment to environmental sustainability and responsible resource management. The green audit evaluated the university's efforts in energy conservation, water management, waste reduction, and pollution control. By implementing effective eco-friendly practices and continuously monitoring its environmental impact, SRHU has demonstrated leadership in promoting sustainable campus operations. This certification underscores the university's dedication to reducing its carbon footprint and fostering an environmentally conscious community among students, faculty, and staff. SRHU continues to prioritize green initiatives, setting an example for other educational institutions to follow in embracing sustainability and environmental stewardship.



AUDIT CERTIFICATE

PRESENTED TO

Swami Rama Himalayan University

Swami Ram Nagar, Doiwala, Dehradun, Uttarakhand, India

Has been assessed by Ecoscience Consultancy for the comprehensive study of environmental impacts on institutional working framework to full the requirement of

Green Audit

(2023-24)

The green initiatives carried out by the university have been verified and found satisfactory in the report submitted.

The efforts taken by the management and the faculty towards environment and sustainability are appreciated and noteworthy.

ECOSCIENCE CONSULTANCY
Laxmi Vihar Colony, Bahadrabad
Haridwar, Uttarakhand- 249402

Dr. Gurpreet Singh
(Authorized Signatory)
Lead Auditor – Green & Environment Audits

Date: 29/01/2024

Certificate awarded to the SRHU for Green Audit

SRHU Recognized for Effective Carbon Footprint Management

Swami Rama Himalayan University (SRHU) received a Carbon Footprint Certificate recognizing its efforts in measuring and reducing greenhouse gas emissions. The university's emissions include direct emissions, indirect emissions from purchased energy, and other indirect emissions from various sources. Through renewable energy use and sustainable practices, SRHU offsets a significant amount of carbon dioxide annually, demonstrating a strong commitment to environmental sustainability.

CARBON FOOTPRINT
CERTIFICATE 2023-24

PRESENTED TO

Swami Rama Himalayan University

Swami Ram Nagar, Doiwala, Dehradun, Uttarakhand, India

Scope of GHG emissions	tCO_2e	%
Direct emissions to air	858	9.4
Indirect emissions from purchased energy	10	0.11
Other indirect emissions	8260	90.4
Total tCO_2e	9,128	

ECOSCIENCE CONSULTANCY, Lakshmi Vihar Colony, Bahadrabad Haridwar, Uttarakhand- 249402

Dr. Gurpreet Singh
(Authorized Signatory)
Lead Auditor – Green & Environment Audits
Ecoscience Consultancy, Uttarakhand

Date: 24/07/2024

CARBON FOOTPRINT
CERTIFICATE 2022-23

PRESENTED TO

Swami Rama Himalayan University

Swami Ram Nagar, Doiwala, Dehradun, Uttarakhand, India

Scope of GHG emissions	tCO_2e	%
Direct emissions to air	724.5	8.67
Indirect emissions from purchased energy	9.2	0.11
Other indirect emissions	7613.9	91.2
Total tCO_2e	8347.6	

ECOSCIENCE CONSULTANCY, Lakshmi Vihar Colony, Bahadrabad Haridwar, Uttarakhand- 249402

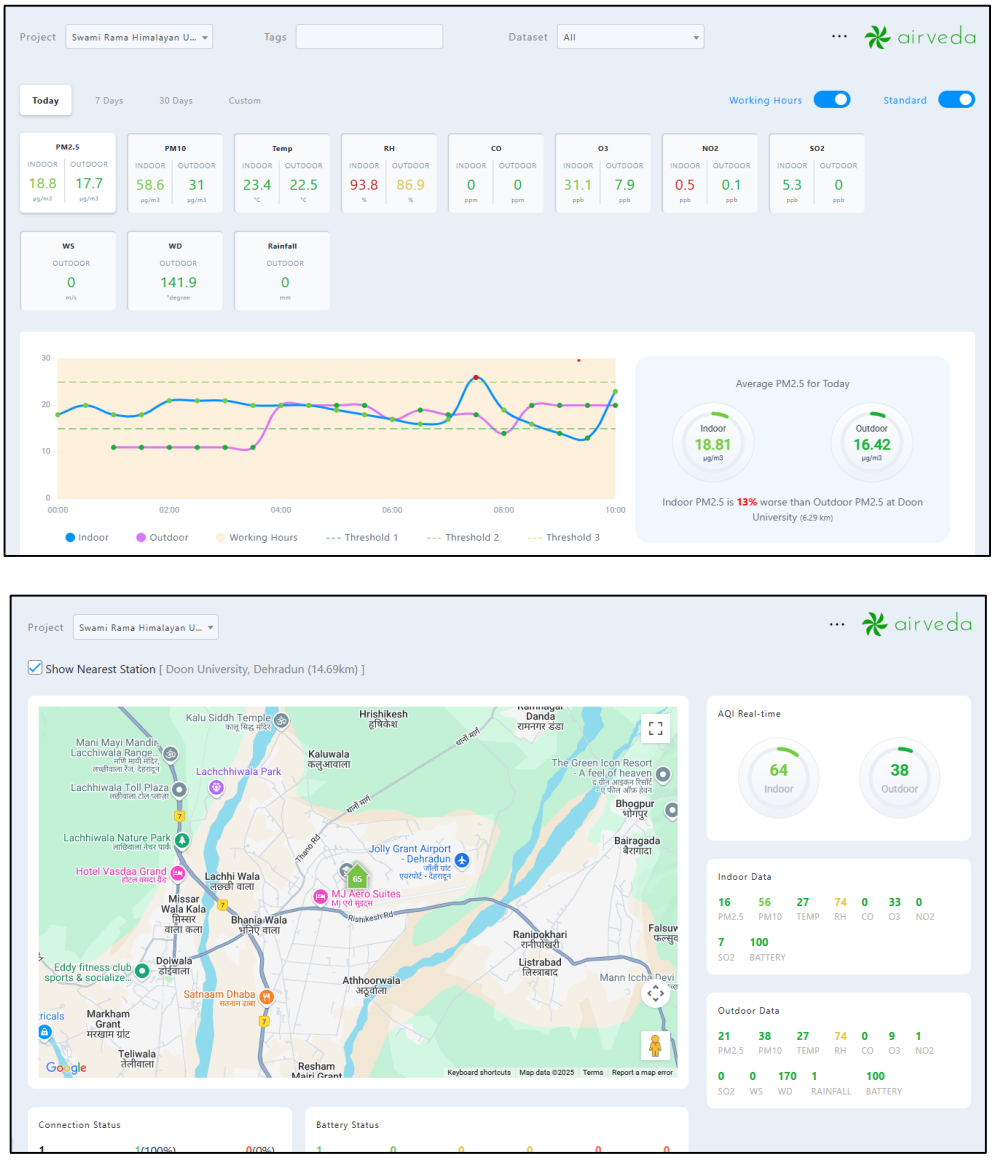
Dr. Gurpreet Singh
(Authorized Signatory)
Lead Auditor – Green & Environment Audits
Ecoscience Consultancy, Uttarakhand

Date: 21/07/2023

Certificate awarded to the SRHU for Carbon Footprint

AQI Display Monitor in the University

Air Quality Index (AQI) display monitors have been installed in the university campus to provide real-time air pollution data. This helps the campus community stay informed and supports efforts to maintain a healthy environment. The monitor also aids in tracking air quality trends to promote sustainability and better environmental practices.

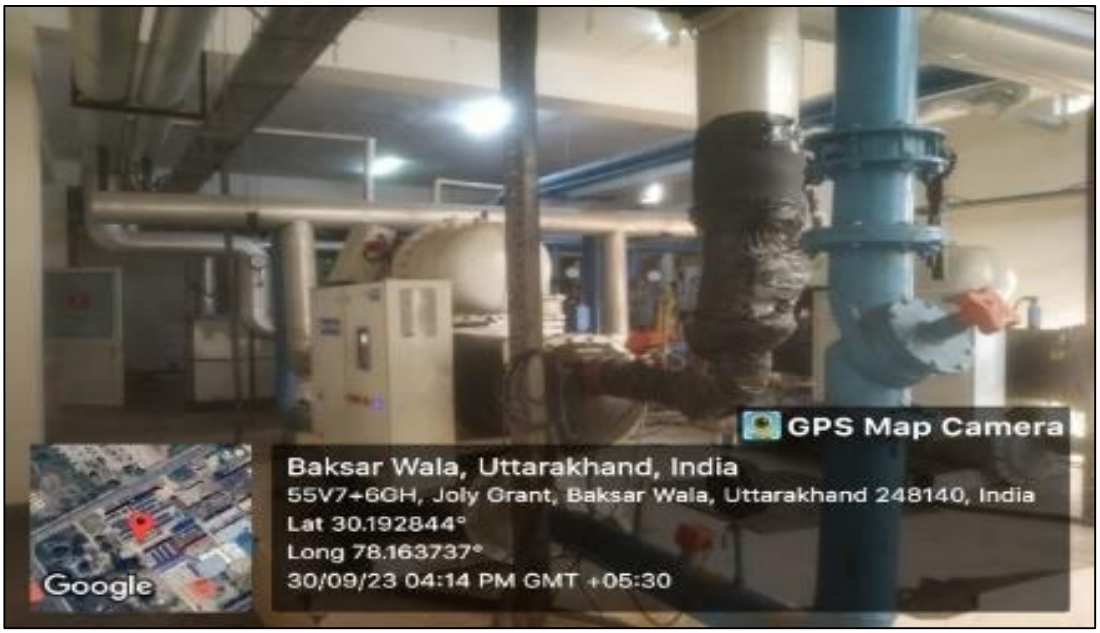


Air Quality Index (AQI) display monitor showing real-time air pollution data on campus

Energy-Efficient HVAC System

The campus uses energy-efficient Variable Frequency Drive (VFD) pumps in water-cooled chillers for central air conditioning, optimizing power consumption. Return air temperature is recovered using a heat recovery wheel, improving energy savings. The Mechanical Ventilation with Heat Recovery (MVHR) system helps save 25%-50% on energy bills, as per BEE standards. Additionally, BEE star-rated split inverter air conditioners, which save 20-

45% energy, are installed. The outpatient departments (OPDs) use energy-efficient Variable Refrigerant Volume (VRV) systems for air conditioning, ensuring further energy conservation.



HVAC system installed in the university

Energy-Efficient Fan Replacement Initiative

Over the years, the university has successfully replaced 2,000 conventional 70-watt ceiling fans with advanced energy-efficient 32-watt Brushless DC (BLDC) fans across its campus facilities. This initiative is a significant step toward reducing energy consumption and promoting sustainable campus operations. The annual energy savings from this replacement are substantial:

- **2021-22:** 550 fans replaced, saving 1,00,320 kWh
- **2022-23:** 620 fans replaced, saving 1,13,088 kWh
- **2023-24:** 500 fans replaced, saving 91,200 kWh

Collectively, these efforts have resulted in a total electricity saving of approximately 3, 04,608 kWh, assuming 8 months of operation at 20 hours daily. Apart from reducing energy consumption, the BLDC fans offer several additional benefits as lower operational costs, improved performance, reduced carbon footprint, longer lifespan and lower maintenance requirements compared to conventional fans. This project aligns with the university's broader commitment to energy conservation, environmental responsibility, and adoption of green technologies.

GSTIN : 05ABWPB1375Q1Z3
PAN NO. : ABWPB1375Q

SHARP TRADING CORPORATION

Deals in

LED Lights, (Indoor/Outdoor) Decorative Pole, Water pump, Geyser, Fan etc.
75, Raja Road, Dehra Dun - 248 001 (U.K.)
Ph. No. 0135-2626833, Fax : 0135-2629204, E-mail : sharp.dehradoon@gmail.com

TAX INVOICE / BILL Invoice No. STC/ **14328** Date 13/09/2022

To M/s SRHU,
Jolly Grant, Dehradun
GSTIN 05AAAJH0463L1ZC Mob.: 01/09/2022
P.O. No. 1963 Date 01/9/22

S. No.	Description of Goods	HSN Code	Qty.	Rate	TAXABLE VALUE 5%	12%	18%	28%
1.	Cema make LED Recessed Panel 15W	9405	175	275=42			48198=50	
2.	Orient make Ceiling fan 1200mm BLDC Hector-500	8414	115	2173=72			2,49,977=80	
3.	Cema make LED 20 watts 4' Batten	9405	20.	155=08			3101=60	

Received by............Date.......
Deptt. of Materials Management
Bijender 14/09/2022

Passed for payment of Rs. 355508/=
(Rupees Three Lakh Fifty Five thousand five hundred Eight only
Supplied by M/s Sharp Trading Corporation
GRN No. 3257 dated 15/9/2022
Purchased for Prose. Dept.
GRN Entered by K Mahesh Bisht
MMD
(Authorised Signatory)

Quality checked & accepted
by........ 14/9/22 Dt.........

SRHU MMD 06 03/10/22

Invoice Value (In Words) : Three Lac fifty five Thousand five Hundred Eight only.

Taxable Value ₹			301,277=90	
CGST ₹	2.5%	6%	9% 27115=01	
SGST ₹	2.5%	6%	9% 27115=01	
IGST ₹				
TOTAL (Inclusive of GST) ₹			3,55,507=92 R/o 355,508	
	INVOICE TOTAL ₹		3,55,508=00	

Bank Details :
Bank Name : State Bank of India
Bank Account No : 30254268885
IFS Code : SBIN 0009108

E. & O. E.
All Disputes Subject to Dehradun Jurisdiction.

For **SHARP TRADING CORPORATION**

Auth. Signatory