

AMITY UNIVERSITY

HARYANA

(Accredited with Grade 'A' by NAAC)

Report on Sustainable Development Goal



SDG 14: Life Below Water Year 2021



Campus: Amity Education Valley, Gurgaon (Manesar) - 122413 (Haryana) | **Tel.:** +91(0)-124-2337015 / 16
Gurgaon Office: Amity International School Campus, Sector-46, Gurgaon - 122001 (Haryana) | **Mob.:** +91-98-184-99225
Website: www.amity.edu/gurgaon | **E-mail:** info@ggn.amity.edu; admissions@ggn.amity.edu

Amity University Haryana is directly and indirectly contributing to protect the marine pollution and conserving the ground water, protecting ponds in neighborhood region, adopting efficient water management practices, and minimizing the plastic usage. By implementing environmental safeguard measures and highest level consciousness towards water conservation on campus and in the surrounding community for sustainable development Amity University Haryana has been relentlessly pursuing the basic tenets of SDG 14.

WASTE MANAGEMENT POLICY

The University has Solid Waste Management Policy aimed at following objectives:

- Protect the environment and public health
- Conserve natural resources
- Minimize landfilling and/or incineration and reduce toxicity

The following table lists recyclable wastes at the campus and their disposal method and handling procedures:

Source/Consumables	Disposal Method	Handling Procedure
Glass, Plastic, Metals, Paper/newspapers, Cardboard	Building occupants dispose of these recyclables in separately provided collection points on each floor. Cleaning staff sorts commingled recyclables out of the trash and delivers, to central waste collection area.	Amounts are tracked and taken away by hauler on a regular basis for recycling
Mercury-containing Lamp	Custodial staff collects fluorescent lamps and stores the unbroken lamps for disposal.	Taken away by an authorized hauler for safe disposal, in accordance with local regulations on disposal of products containing mercury.
Batteries	Building occupants deliver batteries to a specially-designated collection point for disposal proper disposal	Taken away by an authorized hauler on a regular basis for proper disposal
Durable Goods (Electronic Waste and Furniture)	Building management provides a secure collection area to store durable goods that have reached the end of their life within the building but still have value and may be donated re-used.	Amounts are tracked and taken away by an authorized hauler or re-use center on a regular basis for recycling.
Building Materials	Building management coordinates with contractors to collect construction waste for re-use/recycling.	Amounts are tracked and taken away by an authorized hauler at the end of the demolition/construction period for recycling.
Toner/Cartridges	IT department keeps waste toner/cartridge at a designated area.	Amounts are tracked and taken away by the vendor to replace with the new ones.

WATER CONSERVATION AND RAINWATER HARVESTING

Rainwater Harvesting facility are integral part of developmental plan of university since its inception which consists of an elaborate network of rainwater harvesting wells spread all over the campus. The location and size of such water harvesting infrastructure is selected based upon watershed contour of this area which ensures maximum harvest of rainwater.

- Number of wells: 43
- No of bores: 112

Periodical cleaning of Rainwater harvesting wells is carried out to ensure their efficiency for groundwater recharge. Proper operation and maintenance is followed to facilitate efficient water harvesting.

Water Conservation Measures: The AUH campus is committed to achieve zero water discharge campus through network of rainwater harvesting and wastewater/effluent water treatment infrastructure and reuse to ensure efficient and optimal water consumption. University has elaborate arrangement for treating wastewater generated from different university units including administrative, hostels, residential buildings including laundry units. The performance and efficiency of STPs, ETPs is regularly monitored to ensure efficient utilization. Immediate remedial action is taken to rectify any problem to ensure water conservation and safety. Wastewater generated by the University are of two types:

- (i) Sewage waste
- (ii) Laboratory, Laundry and Cafeteria effluent waste

The above waste is treated through Sewage Treatment Plants (STPs) and Effluent Treatment Plants (ETPs). The following are the details of STPs and ETPs installed in the university

STP	Location	Capacity in Liters/day	Type
STP1	Near Faculty Flats	4,50,000	Aerobic
STP2	Near Faculty Flats	4,50,000	Anaerobic

ETP	Location	Capacity in Liters/day	Type
ETP1	Near Faculty Flats	50,000	Kitchen
ETP2	Near Faculty Flats	20,000	Laundry

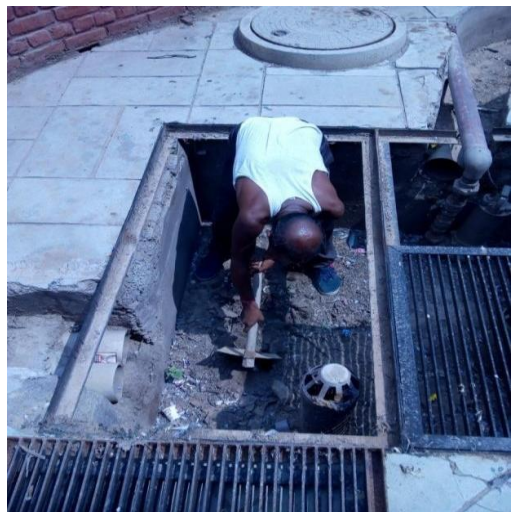
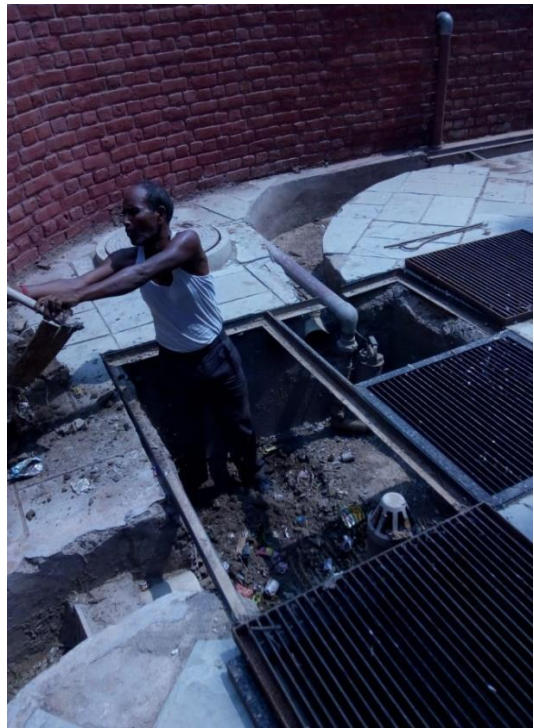
University strives towards developing water conservation and water efficiency through following strategies:

1. Promote water efficiency practices by spreading awareness among Students, Faculty & Staff.
2. Monitor and minimize the University's water consumption.
3. Promote planting indigenous trees in and around the University to reduce water usage.
4. Water samples are tested every quarter and record maintained.
5. All the roof top water is guided to the Rainwater Harvesting Wells.
6. Sustain implementation of innovative water-efficient technologies such as rainwater harvesting, reuse water etc.

Annual cleaning work of all the Rainwater Harvesting pits is executed before the monsoon and the photographs are attached for reference



Maintenance of water harvesting structures before rainy season



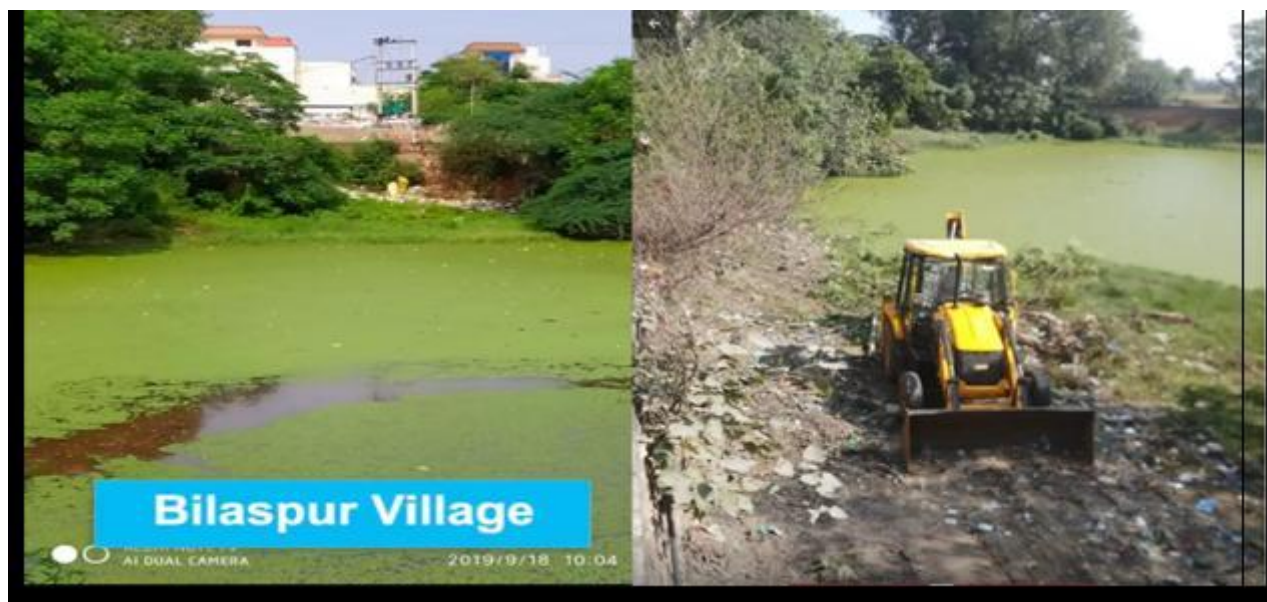
AUH has been awarded a high societal impact project to rejuvenate a wastewater pond at nearby Bilaspur village in Haryana by using nano technology and transfer into a fresh water pond. The project was funded by Gurukul and undertaken home ministry of jal shakthi, government of India.

This project mainly focused on cleaning of the pond was undertaken using 100KLD Moving Bed Biofilm Reactor technique along with Ferrite based nanoparticles as heavy metal adsorbents. The pond is currently being revived. Once the project will be completed the ecosystem of the area will be enhanced by improving and impacting the lives of more than 10,000 villagers. Based on invention for wastewater treatment two patents have been filed and three research articles have been published.

Based on invention on water treatment project, local communities provided water management educational opportunities and learned about the sustainable water management practices.

The project offers the following benefits to society:

- Rejuvenation of the local water body into freshwater pond.
- Enhanced Cleanliness and hygiene.
- Availability of consumable water.
- Using solar green energy to run the plant.



PLASTIC FREE CAMPUS

The campus is trying its best to minimise the use of plastic. In this concern the stores and even the food stalls are motivated to use paper and jute bags for packing. In this regard other activities are like Swachh Bharat Abhiyan, Farmer Training & Herbal Garden

EVENTS ON SDG 14

1st International Webinar (Virtual) Symposium on Geoethics

Amity University Haryana organized 1st International Webinar (Virtual) Symposium on Geoethics on June 14, 2020. This was a unique initiative and the event highlighted that proper and deep education on ethical issues in geosciences has been evolving in recent times, although not as quickly and deeply as necessary. Speaker at the Webinar was Prof. (Dr.) Devesh Walia of North-Eastern Hill University, Shillong. The theme of the research propagates the agenda of SDG 14. Geoethics is the research and reflection on the values which underpin appropriate behaviors and practices, wherever human activities interact with the Earth system. Geoethics provides a framework from which to define ethical professional behaviors in both geosciences and engineering, and to determine how these should be put into practice for the benefit of society and environment. Many of the professionals dedicated to Earth Sciences have been not in touch with such new concepts and tendencies as the concept of Geoethics. Objectives of the event encompass ethical and social problems related to management of land, sea coasts and open oceans keeping in perspective conservation of marine resources in conjunction with socio-environmentally sustainable supplies and conservation of energy and geo-resources, reduction of environment and marine pollution, and resilience of society related to natural-anthropogenic hazards, and risk mitigation strategies in an inclusive and sustainable manner. All these objectives of the Webinar promote the basic intent of SDG 14.

