



Government of Jammu & Kashmir

**OFFICE OF THE PRINCIPAL
Govt. Degree College Handwara**

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ENVIRONMENTAL AUDIT REPORT (2023-2024)

The Environmental Audit of the college is the result of the collaborative efforts by the Department of Botany, Department of Environmental Science, Department of Geosciences, Department of Education and Department of Economics.

Environmental Audit Committee

S.No	Name	Role
01.	Prof. Ghulam Rasool Ganie	Chairman
02.	Prof. Nisar Ahmad	Secretary
03.	Prof. Mushtaq Ahmad	Member
04.	Dr Shahnaz Mohiudin	Member
05.	Prof. Ajaz Ahmad Magray	Member
06.	Prof. Mohd Ayoub Wani	Member
07.	Prof. Gowhar Ahmad	Member
08.	Dr. Musavir ul Habib	Member
09.	Dr Ghulam Nabi Najar	Member
10.	Mr Showkat Ahmad	Member

Purpose and Scope

The committee has been established for the sake of promotion of environmental sustainability by conducting environmental audits at regular intervals for the evaluation of the various different indicators of environmental health of the college and to provide recommendations for its continual improvement.

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Introduction

The exhaustive use of natural resources as a result of the population explosion, urbanization, coupled with the climate change globally has led to serious environmental concerns in the academic and research fraternity. From time to time, there have been numerous responses to these challenges, spanning from global to regional levels, which have yielded significant results, but at the time calling for more serious interventions at different levels and scope. From the Earth Summit at Rio de Janeiro in 1992 to the United Nations Sustainable Development in 2015, efforts are in a continuum for the sake of sustainable use of environment. In this context, the colleges, being the higher institutions of learning has this important responsibility of knowledge sharing among the academic fraternity therein and to build suitable collaborations with all the stakeholders to develop actionable strategies to effectively deal with the management of different environmental issues. In response to this important responsibility our college is actively engaging in different activities including promotion of environmental awareness among the academic fraternity including the teachers, students and administrative staff alike. Our college is actively involved in working with different stakeholders including, Government bodies, NGO's and other organizations for the collaborative action in different areas of environmental concerns. Moreover, the college offers, Environmental Education as a value added course as part of curriculum in order to develop awareness and knowledge among the students so that they can develop a positive attitude and skills for becoming active players in the environmental management and conservation.

The Eco Club and Extension Activities Committees are actively working in bridging the gaps between academic and community by reaching out to different areas and organize different programmes for creating awareness, and thereby involving the community in different ecofriendly measures.

About the College

Government Degree College, Handwara is one of the premier Higher Educational Institutions of the North Kashmir and the first Degree college of District Kupwara, with its foundation stone being laid in the year 1982 by Hon'ble Minister for Education, J&K Government Handwara, District Kupwara. The first academic session started in the year 1983 in a building provided by Higher Secondary School Handwara. Later the college was shifted to the actual campus at Handwara which is spread over an area of 56 Kanals, in a cool and calm lush green environment. The college stands affiliated to the University of Kashmir, Srinagar and recognized under 2(f) and 12(b) of UGC Act 1956. The college is situated at a distance of 79

Kilometers from Srinagar, the Summer Capital of Jammu & Kashmir Union Territory. The college owns a massive infrastructure owing to its academic, administrative and student service needs. The college has evolved significantly in terms of its infrastructure and quality education. . The infrastructure of the college comprises of 4 double storied lecture blocks viz Alama Iqbal Block, Ibn Sena Block, Ibn Hayan Science Block, Commerce Block, an Administrative Block, BCA block and two residential hostels for boys and girls. The college offers different undergraduate courses with Majors in Botany, Zoology, Physics, Mathematics, Chemistry, Biochemistry, Clinical Biochemistry, Biotechnology, Anthropology, Computer Sciences, Education, Economics, Geography, Political Science, Urdu, History, Arabic, English, Music with different Skill, Value and Ability Enhancement courses in the fields of IT, EECE, Veterinary Technology, Environment Science Education, Public Opinion and Survey Research etc. strictly in accordance with the National Education Policy 2020.





Objectives

1. To assess and identify the different areas of environmental concerns in the college.
2. To promote environmental awareness on the basis of modern research among the college faculty and students.
3. To develop a roadmap for the effective implementation of environmental policies and guidelines.
4. To engage with different stakeholders for an effective collaboration for ensuring the sustainability of the environment.
5. To advise and recommend the different initiatives for the continuous improvement and suitability of the environment.
6. To come up with detailed annual reports, containing actionable recommendations.

Land Use

Government Degree College Handwara is using the available land for a range of different purposes so that the required facilities are provided to the students, teaching and non-teaching staff. The College covers an area of 56 Kanals; the land use of the college is detailed as under.

Area under Various Land Uses in the College Campus

Land Use	Area (in Kanals)
Built up	13.60
Green Space	15.20
Parks	10.70
Playground	10.41
Road	4.60
Vehicle Parking Space	0.44
Botanical Garden	1.05
Total Area	56

Table: Total Intake Capacity of the Hostels

Name of the Hostel	Total Intake Capacity
Boys Hostel (ST)	75
Girls Hostel	40



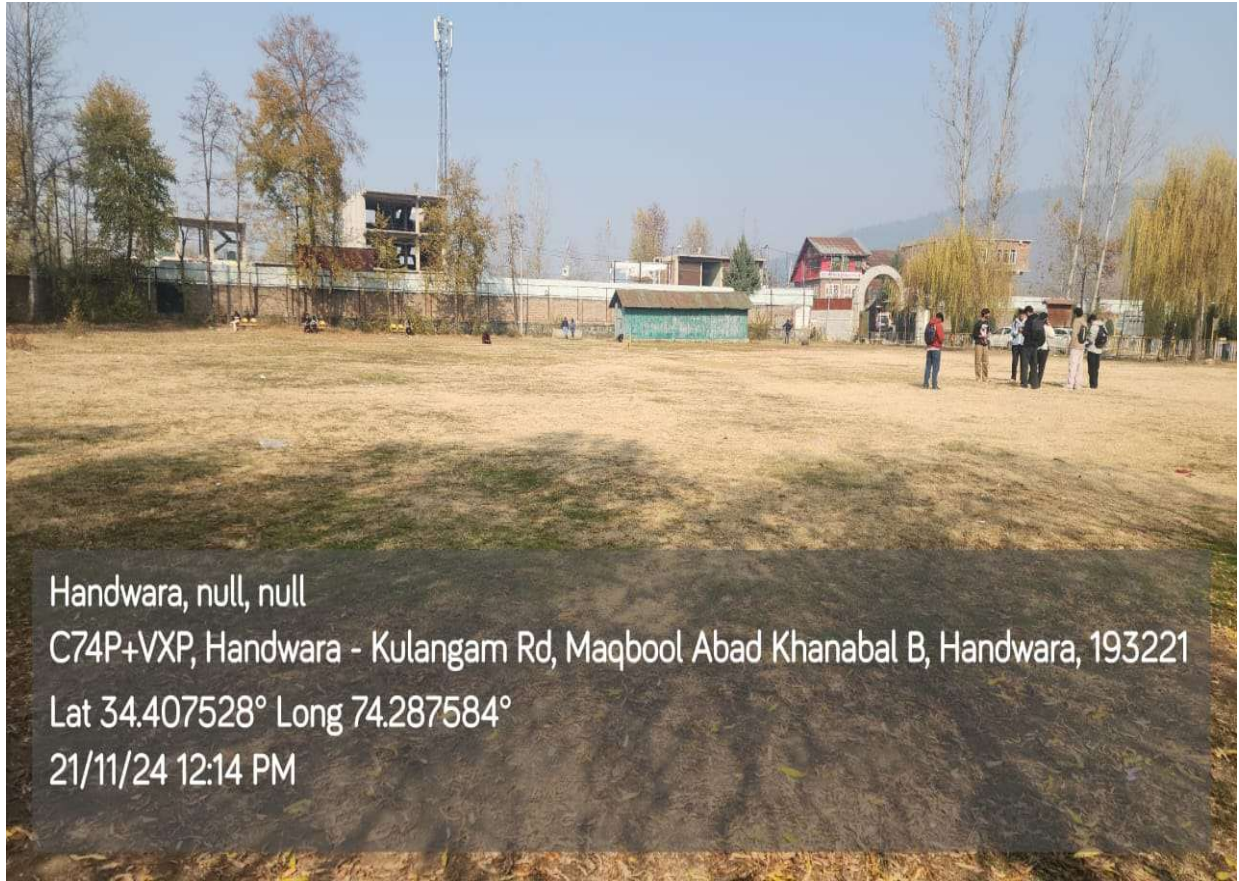
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PLAY GROUND GDC HANDWARA

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CAR PARKING GDC HANDWARA

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VOLLEYBALL COURT GDC HANDWARA

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Energy Audit

Energy audit focuses on the identification of potential areas in the college where energy can be saved by taking suitable measures and also to identify the areas wherein it is being non-judiciously. The energy is utilized in the campus for running different college affairs including lighting of classrooms, offices, staff rooms, other student services facilities, hot and cold facilities, running of lab instrumentation, appliances, water heating etc.

Total Energy Consumption of the College

S. No.	Energy Resources		Consumption (Annually)
01.	Electricity	Hydropower	32000-34000 units
		Solar	55 KV
02.	Gas	LPG	112 Liters
03.	Oil	Petrol	105 Liters
		Diesel	450 Liters

The College relies on the use of both renewable as well as non-renewable energy sources to meet its energy needs. The college has installed a DG set having capacity of 30KVA and 2 petrol driven power generators in addition to the hydroelectricity based power supply.



Transport Audit

The college provides transport facility to students and is planning to extend the services to the staff in the near future. As of now, the college owns 2 buses, 35 seaters and 25 seaters respectively. The buses are also being utilized for the picnics, excursions, study tours, field visits, extensions activities, NCC and NSS programmes in addition to the routine transport services. The college is planning to purchase some more ecofriendly buses shortly in order to expand the horizons of the transport services.

Water Audit

The college Environment Audit committee conducts the water audit periodically so as to ensure the judicious use of water. The college has a good water supply which is stored in different storage tanks. The college has a huge water tank that reserves around 30 thousand liters of water. Additionally, the storage tanks are installed in each and every building that caters to the daily water requirements. The water is being used as drinking water, for washrooms and sanitation purposes. The water usage and distribution system is regularly being assessed for any possible water leakage and any sort of misuse at departmental levels. The storage capacity of water in the college is shown as under



Table Total Water Storage Capacity in the College

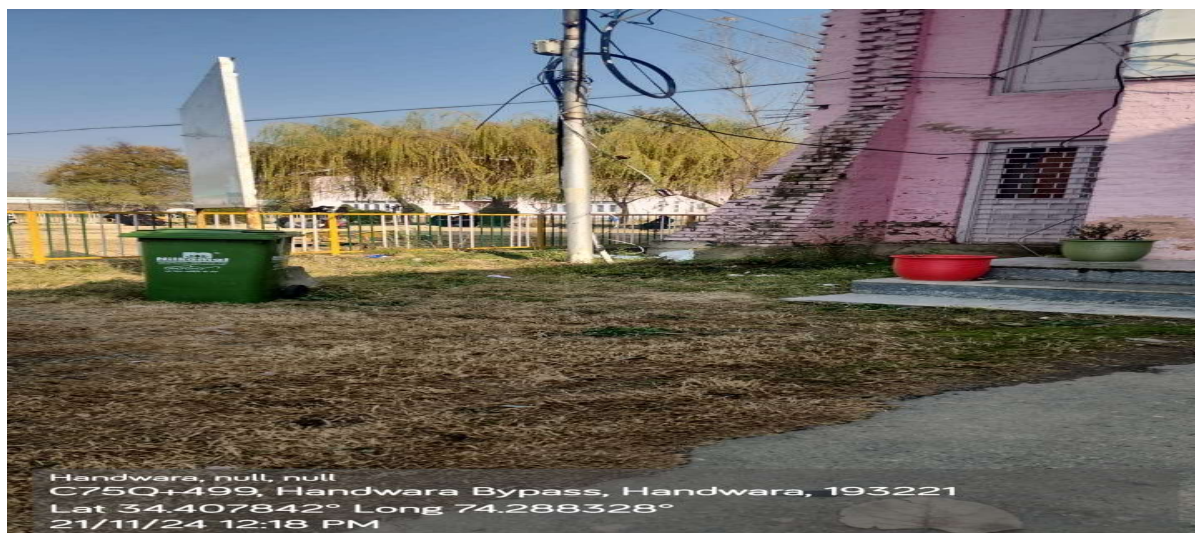
S. No.	Water Sources	Storage Facilities	Number	Storage Capacity (in Litres)
01.	Overhead Water Storage Tank	Water Tanks	2	10,000
02.	Separate Plastic Tanks/Building wise	Water Tanks	20	20,000
Total Storage Capacity				30,000 Litres

Solid Waste Audit

The solid waste management of the college is taken care of effectively. The colleges enforce the principle of reduction and recycling of waste. Currently the solid wastes is collected in different dust bins. The waste segregation is not in place as of now. The collected waste is being lifted regularly by the Municipal Committee Handwara for its effective disposal. The college development committee has framed a detailed action plan for the segregation of waste within the college and its subsequent disposal in house.

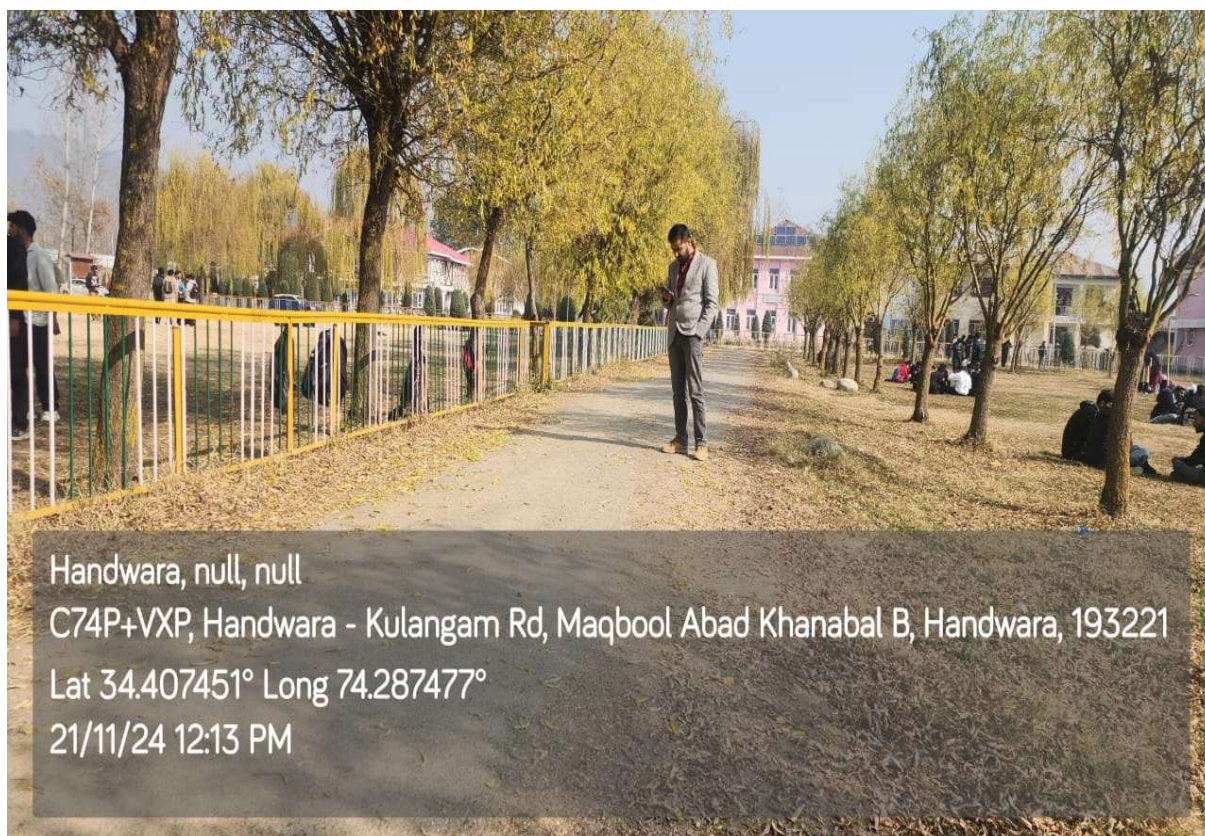
E-wastes are collected and subsequently stored at dedicated place in the store and auctioned at regular intervals as per the GFR rules in place. Bio-medical wastes generated in Bio-chemistry, Clinical Bio-chemistry labs, Biotechnology are disposed of with the active support from Government Medical College, Handwara. The solid waste collection is also being carried out by the active participation of NCC and NSS volunteers by conducting different types of campus cleanliness drives on regular basis.





Plantation Audit

The college has constituted Eco Clubs and Landscape Development Committee who continuously engage in the monitoring of the plantation in the campus, maintenance of gardens, parks and lawns. These committees also organize different activities like plantation drives, awareness programmes for the greening of the campus. The campus witnesses the plantation of around 100-120 plants including Cedrus, Pinus and Cupressus every year adding to the beauty of the lush green campus. The college has also maintained Botanical garden where ex-situ conservation of different Himalayan medicinal herbs are planted and protected.



Green Audit Report

The colleges houses the below mentioned plant species, which includes, trees and many herbaceous plants.

Inventory of Campus Flora

Botanical Name
<i>Cedrus deodara</i>
<i>Pinus wallichiana</i>
<i>Juniper sp.</i>
<i>Morus alba</i>
<i>Acacia sp.</i>
<i>Salix viminalis</i>
<i>Salix alba</i>
<i>Populous sp.</i>
<i>Rosa indica</i>
<i>Hibiscus rosa</i>
<i>Platanus orientalis</i>

Botanical Garden

The Department of Botany of the college maintains a rich and diverse botanical garden having different species of flowering plants, trees and few medicinal plants. The botanical garden is used by the students for different practical activities related to the curriculum including taxonomy, conservation biology, reproductive biology etc.

A detailed listing of the plants in the botanical garden is provided here as under

Inventory of Botanical Garden

Botanical Name	Number of Individuals/Species
<i>Cedrus deodara</i>	03
<i>Syringa emodi</i>	07
<i>Hydragia sp.</i>	01
<i>Jasminium sp.</i>	06
<i>Artemisia annua</i>	05
<i>Weigelia florida</i>	0
<i>Santolina incana</i>	01

<i>Populous sp</i>	01
<i>Acacia sp.</i>	01
<i>Rosa indica</i>	04
<i>Parthenium sp.</i>	02 beds
<i>Viburnum opulus</i>	`1
<i>Eriobotrya japonica</i>	01

Recommendations

1. The college Environmental audit must include some student members which will help in developing a sense of responsibility among the students' community.
2. Installation of a robust roof top based rain water harvesting system in the college to cater to the water requirements of the college and to reduce the energy use.
3. Effective leveraging of digital platforms to reduce the use of paper.
4. Installation of digital notice boards displaying various ecofriendly behaviors and complete ban on use of single use plastics.
5. Procurement and installation of solar driven water pumps to reduce the use of petrol and diesel based generators.
6. Use of electric lawn mowers for the management of college parks and gardens.
7. Conducting more awareness programmes within and outside the college campus to enhance the collaboration, so as to facilitate effective management of environment.

Sd/-

Principal

GDC Handwara