D.P. VIPRA LAW COLLEGE BILASPUR (C.G.)

Approved From BCI,
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D.P. Vipra Law College Bilaspur

Ashok Nagar, Seepat Road, Sarkanda, Bilaspur (C.G.)

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7.1.4

Water conservation facilities available in the Institution:

- 1. Rainwater harvesting
- 2. Borewell /Open well recharge
- 3. Construction of tanks and bunds
- 4. Wastewater recycling
- 5. Maintenance of water bodies and distribution system in the campus

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Summary - Sheet

Criteria	7 – Institutional Values and Best Practices					
Key Indicator	7.1 Institutional Values and Social Responsibilities					
Metric	7.1.4 Water conservation facilities available in the Institution: 1. Rainwater harvesting					
6-0-0	2. Borewell /Open well recharge					
((/2)	3. Construction of tanks and bunds					
400	4. Wastewater recycling					
	5. Maintenance of water bodies and distribution system in the					
	campus					

- 7.1.4 Water conservation facilities available in the Institution:
 - 1. Rainwater harvesting
 - 2. Borewell /Open well recharge
 - 3. Construction of tanks and bunds
 - 4. Wastewater recycling
 - 5. Maintenance of water bodies and distribution system in the campus

Selected Option for the above measures

A

Any 4 or all of the above

Since all supporting documents for this metric exceeds the upload limit of hence we have hosted the scanned documents as per SOP on institutional website on the following links.

Discription	Relevant link
1) Invoice/Bill for the purchase of equipment's for	
the facilities created under this metric are	7-
attached. (Appendix-I)	- 1
9/2	
2) Green audit reports on water conservation by	
recognised bodies are attached. (Appendix-II)	
3) Geotagged photos of the facilities are attached.	
(Appendix- III)	

Co-Ordinator I.Q.A.C.



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Appendix - I

D.P. Vipra Law College Bilaspur

Ashok Nagar, Seepat Road, Sarkanda, Bilaspur (C.G.)

BILL OF RAIN WATER HARVESTING INSTALLATION



कार्यालय प्राचार्य ही.पी.विप्र विधि महाविद्यालय,

शीपत शेंड, अशोंक नगर बिलासपुर (छ.ग.)

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पत्र क्रमांक 3060/2022

बिलासपुर, दिनांक - 02/11/2022

कार्य आदेश

प्रति.

स्वाति शेखार पुशोसियेट , कारशिल चौक, बलराम टाकिज शेड , बिलासपुर (छत्तीसगढ़)

विषय:-

वाटर हारवैरिटंग एवं अन्य मरममत का कार्य करने के संबंध ।

संदर्भ :-

आपके भाव पत्र क्रमांक SSA/DPLC दिनांक - 28/10/2022,

महोदय,

आपको सूचित किया जाता है, कि महाविधालय में वाटर हारवेरिटंग एवं अन्य मरम्मत का कार्य किये जाने हेतु आपके द्वारा भाव पत्र प्रश्तुत किया गया था, जिसे स्वीकृत करते हुये आपको वाटर हारवेरिटंग एवं अन्य मरम्मत का कार्य करने की अनुमित स्वीकृति निम्न शर्तो पर की जाती है।

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02.कार्य भाव पत्र के अनुसार होगी।

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D.P. Vipra Law College

Bllaspur (C.G.)

SWATI SHEKHAR ASSOCIATES

ARCHITECT, INTERIOR DESGINERS, VALUERS, PLANNER

KARGIL CHOWK, BALRAM TALKIES ROAD, BILASPUR [C.G] 9406022079

SSA/DPLC/05

Date.....23/12/2022

To The Principal
D.P .Vipra Law College
Bilaspur [C.G]

Sub- For Payment Of Work

Sir

As Per Your Order 3060 We Have Completed The Work

Of Rain Water Harvesting And Other Repairing Works.

Please Issue Me The Payment Of 298500.00 [Two Lacs Ninety

Eight Thousand Five Hundred Only].

Swati Shekhar Associates

Ar. Swati Sahu

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CG JAL SANJEEVAN KENDRA

MONESH KUMAR PANDEY

(GEO-HYDROLOGIST)

Mob. No. - 8517032606

REGISTERED GEO-HYDROLOGIST IN RAIPUR MUNICIPAL CORPORATION & INDIAN ASSOCIATION OF HYDROGEOLOGIST, M.Sc. In GEOLOGY, MINING & ENVIRONMENT PLAN CONSULTANT, ENVIRONMENTAL IMPACT ASSESSMENT CONSULTANT.

Certificate No. - CGJSK/MKP/RWH/568/2023

Date: 12/12/2022

CERTIFICATE OF RAIN WATER HARVESTING COMPLETION

This is to certify that the **04** Recharge Pit of Rain Water Harvesting System is Constructed in the **Collage**, in the name of **Principal of DP Vipra Law Collage** at Ashok Nagar, Sarkanda, Bilaspur(*C.G.*)

MONESH KUMAR PANDEY

BILLS FOR BOREWELL

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Ref. : 451

Date: 318/0

To,

The Principal

D.P.V. Law College, Bilaspur (C.G.)

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Opp. Bukhari Petrol Pump, Link Road, Bilaspur (C.G.) Office: 20388, Resi. 27688

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दिनांक: -10/08/2019

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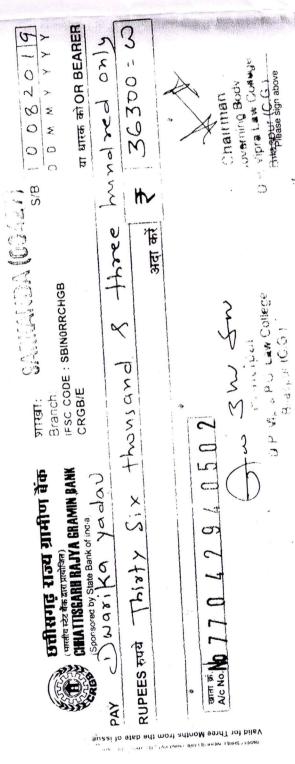
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D.P. Vipra P.G. Law Coilege Bilaspur (C.G.) आध्यक्ष Chairman Governing Body D.P. Vipra Law College Bilaspur (C.G.)



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बैमा नगोई रोड, रामा ग्रीन सिटी के पास, बिलासपुर (छ.ग.)

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वास्ते, सिनी हार्डवेयर

कार्यालय प्राचार्य

ही.पी.विप्र विधि महाविद्यालय, शीपत शेंड, अशोंक नगर बिलासपुर (छ.ग.) दिनांक: - 09/06/2020

नोट शीट

पूर्व में स्वीकृत शिश , छात्रावास मरममत हेतु शीमेण्ट,के बिल का भ्रुणतान,शंतोष धुरी (माली को घास एवं पौधा हेतु) के बिल , पंजाब मेडिकल स्टोर्स के बिल, संत्र 2017-2018 पुर्व 2018-2019 के आहित का फीस पुर्व जागृति स्टोर्स के बिल का भुगतान करने हेतु शक्षि के संबंध में।

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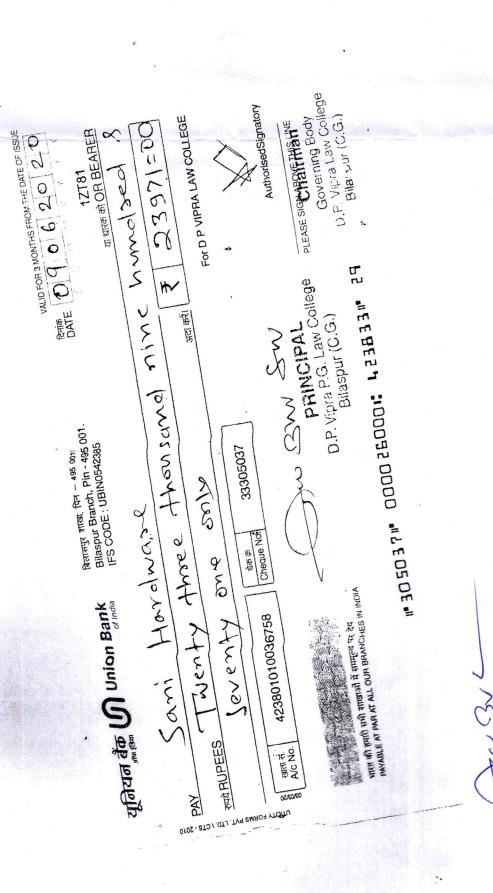
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D.P. Vipra P.G. Law College

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> D.P. VIPRA LAW COLLEGE Bilaspur (C.G.)



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कायोलय प्राचाये

डी.पी.विप्र विधि महाविद्यालय, शीपत शेंड, अशोक नगर बिलासपुर (छ.ग.)

दिनांक: -16/12/2019

नोट शीट

विषय :- भवन निर्माण कार्य ,कम्प्यूट२ रिपेरिंग एवं पूर्व में स्वीकृत राशि का भुगतान करने के संबंध में। मान्यवर,

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प्राचार्य PRINCIPAL

D.P. Vipra P.O. Law College Officiapur (C.G.)

अध्यक्ष

Chairman Governing Body D.P. Vipia Law College

Bilaspur (C.G.)

D.P. VIPRA LAW COLLEGE Bilaspur (C.G.)

D.P. VIPRA LAW COLLEGE BILASPUR (C.G.)

Approved From BCI,
Affiliated to Atal Bihari Vajpayee Vishwavidyalaya Bilaspur (C.G.)

Appendix - II

D.P. Vipra Law College Bilaspur

Ashok Nagar, Seepat Road, Sarkanda, Bilaspur (C.G.)

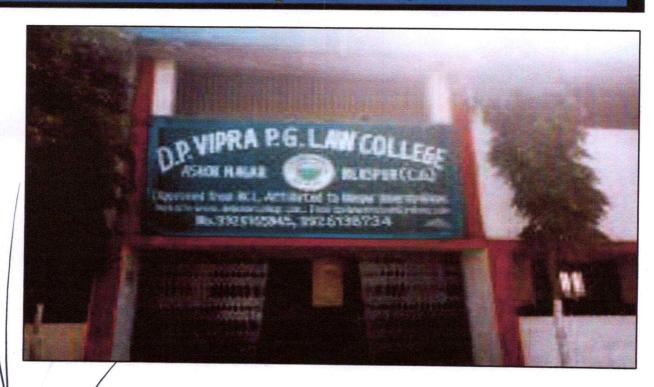
GREEN AUDIT REPORTS ON WATER CONSERVATION





2022

GREEN & ENVIRONMENT AUDIT REPORT D.P.Vipra Law College, Bilaspur(C.G.)



November 2022

Prepared By:

Greenserve Energy Management Solutions

Vijay Nagar,

Durg (C.G.) - 491001



Acknowledgement

We are thankful to the Management and the Principal of the D.P.Vipra Law College, Bilaspur for entrusting processes of Green & Environment auditing with us. We thank all the participants of the auditing team especially students, faculty and non-teaching staff who took pain along with us to gather data through survey. We also thank the office staff who helped us during the document verification.

Audit Team Members

1	Rahul Agrawal	Certified Energy Auditor	
2	Jayendra Mohabe	Senior Energy Engineer	
3	Bhumesh Jagnit	Energy Engineer	

For Greenserve Energy Management Solutions,

Greenserve Energy Management Solutions Durg (C.G.)

Rahul Agrawal

Certified Energy Auditor (EA-20984)

Bureau of Energy Efficiency (MoP)

QP. VIPRA LAW COLLEGE Bilaspur (C.G.)



1. Executive Summary

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institute which will lead for sustainable development.

D.P.Vipra Law College, Chhattisgarh is deeply concerned and unconditionally believes that there is an urgent need to address these fundamental problems and reverse the trends. Being a premier institution of higher learning, the University has initiated 'The Green Campus' program that actively promote the various projects for the environment protection and sustainability.

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The methodology includes: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons, data analysis, measurements and recommendations. It works on the several facets of 'Green Campus' including Water Conservation, Tree Plantation, Waste Management, Paperless Work, Alternative Energy and Mapping of Biodiversity. With this in mind, the specific objectives of the audit are to evaluate the adequacy of the management control framework of environment sustainability as well as the degree to which the departments are in compliance with the applicable regulations, policies and standards. It can make a tremendous impact on student's health and learning University operational costs and the environment. The criteria, methods and recommendations used in the audit are based on the identified risks



2. Introduction

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Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The 'Green Audit' aims to analyze environmental practices within and outside the University campus, which will have an impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. Through Green Audit, one gets a direction as how to improve the condition of environment and there are various factors that have determined the growth by carrying out Green Audit.

Green audit is assigned to the criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India and it declares the institutions as Grade A, B or C according to the scores assigned during the accreditation.

2.1 About D.P.Vipra Law College Bilaspur

The D.P.Vipra Law College Bilaspur (C.G.) was established in 1989 as a Department of Law D.P.Vipra P.G.College old High Court Road Bilaspur (C.G.) having only 89 students enrolled in LL.B.Part -I- (Three years law degree course) and its first batch of law graduate came out during June –July 1992 and one Mr.Vinay Kumar Mishra brought laurel for the college achieving first position in order of Merit of Guru Ghasidas University Bilaspur During 1989-99 Academic session the College management took a major decision regarding the conversion of the department of law into independent full fledged law college complying the instruction of BCI and also decided that the new independent law College will have its own Building and fully equipped Library. Accordingly at present the D.P.Vipra P.G.Law College has its own Building and Girls Hostel at Ashok Nagar Seepat Road Bilaspur with open ground and garden the double Storey Hostel is college Building is erected upon more them 12000 sq.fit, land area and built up area of is Hostel near about 5000 sq.fit having two tear residential Rooms and Dining Hall. The hostel can accommodate not less than 30 hosteller at a time.

The D.P.Vipra P.G. Law College Library can be designated as a best and well equipped Library in Bilaspur region because it contains not only 8833 Books & 1090 Journals but it is linked with AIR & SCC through internet system. The D.P.Vipra P.G. Law College Library has a good collection of AIR (from 1950 to up to date) and Supreme Court Cases along with various Digests & Manuals One more thing is also significant that the college is registered under Section 2 F& 12 B of U.G.C Act for receiving development Grant from UGC under different five years plans.

The D.P.Vipra P.G. Law College Bilaspur is run by Snatak Mahavidyalaya Shikshan Samiti Chaired by well Known Educationist and Retd.Principal Prof. Ramnarayan Shukla & as per the provisions of Statute No. 28 the Governing Body of the College is constituted.

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Location:

D.P.Vipra Law College is located at, Seepat Rd, Ashok Nagar, Sarkanda, Bilaspur, Chhattisgarh 495006, India and the GPS Coordinates of the college is 22°06'06.2"N 82°09'32.9"E



Total Campus Area & University Building Spread Area

Campus area	1.60 Acre
Total Campus Building Area	1114.836 Sq. m.



3.0 Pre-Audit Stage

A pre-audit meeting provided an opportunity to reinforce the scope and objectives of the audit and discussions were held on the practicalities associated with the audit. This meeting is an important prerequisite for the green audit because it is the first opportunity to meet the auditee and deal with any concerns. The meeting was an opportunity to gather information that the audit team can study before arriving on the site. The audit protocol and audit plan were handed over at this meeting and discussed in advance of the audit itself. In college pre-audit meeting was conducted successfully and necessary documents were collected directly from the college before the initiation of the audit processes. Actual planning of audit processes was discussed in the pre-audit meeting. Audit team was also selected in this meeting with the help of staff and the college management. The audit protocol and audit plan were handed over at this meeting and discussed in advance of the audit itself. The audit team worked together, under the leadership of the lead auditor, to ensure completion within the brief and scope of the audit.

Management's Commitment

The Management of the college has shown the commitment towards the green auditing during the pre-audit meeting. They were ready to encourage all green activities. It was decided to promote all activities that are environment friendly such as awareness programs on the environment, campus farming, planting more trees on the campus etc., after the green auditing. The management of the University was willing to formulate policies based on green auditing report.

Scope and Goals of Green & Environment Auditing

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. Green & Environment Audit is the most efficient and ecological way to manage environmental problems. It is a kind of professional care which is the responsibility of each individual who are the part of Economical, financial, social, environmental factor. It is necessary to conduct green audit in college campus because students become aware of the green audit, its advantages to save the planet and they become good citizen of our country. Thus, Green audit becomes necessary at the college level. A very simple indigenized system has been devised to monitor the environmental performance of D.P.Vipra Law College, Bilaspur. It comes with a series of questions to be answered on a regular basis. This innovative scheme is user friendly and totally voluntary. The aim of this is to help the institution to set environmental examples for the community, and to educate the young learners.



Benefits of the Green & Environment Auditing

- More efficient resource management
- To provide basis for improved sustainability
- To create a green campus
- To enable waste management through reduction of waste generation, solid-waste and water recycling
- To create plastic free campus and evolve health consciousness among the stakeholders
- Recognize the cost saving methods through waste minimizing and managing Point out the prevailing and forthcoming complications
- Authenticate conformity with the implemented laws
- > Empower the organizations to frame a better environmental performance
- Enhance the alertness for environmental guidelines and duties
- Impart environmental education through systematic environmental management approach and Improving environmental standards
- Benchmarking for environmental protection initiatives
- Financial savings through a reduction in resource use
- Development of ownership, personal and social responsibility for the University and its environment
- Enhancement of University profile
- Developing an environmental ethic and value systems in youngsters.
- Green auditing should become a valuable tool in the management and monitoring of environmental and sustainable development programs of the University.



Target Areas of Green and Environment Auditing

Green audit forms part of a resource management process. Although they are individual events, the real value of green audits is the fact that they are carried out, at defined intervals, and their results can illustrate improvement or change over time. Eco-campus concept mainly focuses on the efficient use of energy and water; minimize waste generation or pollution and also economic efficiency.

All these indicators are assessed in process of "Green and Environment Auditing of educational institute". Eco-campus focuses on the reduction of contribution to emissions, procure a cost effective and secure supply of energy, encourage and enhance energy use conservation, promotes personal action, reduce the institute's energy and water consumption, reduce wastes to landfill, and integrate environmental considerations into all contracts and services considered to have significant environmental impacts. Target areas included in this green auditing are water, energy, waste, green campus and carbon footprint.

Auditing for Water Management

Water is a natural resource; all living matters depend on water. While freely available in many natural environments, in human settlements potable (drinkable) water is less readily available. We need to use water wisely to ensure that drinkable water is available for all, now and in the future. A small drip from a leaky tap can waste more than 180 litters of water to a day; that is a lot of water to waste enough to flush the toilet eight times! Aquifer depletion and water contamination are taking place at unprecedented rates. It is therefore essential that any environmentally responsible institution should examine its water use practices. Water auditing is conducted for the evaluation of facilities of raw water intake and determining the facilities for water treatment and reuse. The concerned auditor investigates the relevant method that can be adopted and implemented to balance the demand and supply of water. It is therefore essential that any environmentally responsible institution examine its water use practices.

Auditing for Energy Management

Energy cannot be seen, but we know it is there because we can see its effects in the forms of heat, light and power. This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliances, and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment. An old incandescent bulb uses approximately 60W to 100W while an energy efficient light emitting diode (LED) uses only less than 10 W. Energy auditing deals with the conservation and methods to reduce its consumption related to environmental degradation. It is therefore essential that any environmentally responsible institution examine its energy use practices.

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Auditing for Waste Management

Pollution from waste is aesthetically unpleasing and results in large amounts of litter in our communities which can cause health problems. Plastic bags and discarded ropes and strings can be very dangerous to birds and other animals.

This indicator addresses waste production and disposal, plastic waste, paper waste, food waste, and recycling. Solid waste can be divided into two categories: general waste and hazardous waste. General wastes include what is usually thrown away in homes and schools such as garbage, paper, tins and glass bottles. Hazardous waste is waste that is likely to be a threat to health or the environment like cleaning chemicals and petrol. Unscientific landfills may contain harmful contaminants that leach into soil and water supplies, and produce greenhouse gases contributing to global climate change. Furthermore, solid waste often includes wasted material resources that could otherwise be channelled into better service through recycling, repair, and reuse. Thus, the minimization of solid waste is essential to a sustainable University. The auditor diagnoses the prevailing waste disposal policies and suggests the best way to combat the problems. It is therefore essential that any environmentally responsible institution examine its waste processing practices.

Auditing for Green Campus Management

Unfortunately, biodiversity is facing serious threats from habitat loss, pollution, over consumption and invasive species. Species are disappearing at an alarming rate and each loss affects nature's delicate balance and our quality of life. Without this variability in the living world, ecological systems and functions would break down, with detrimental consequences for all forms of life, including human beings. Newly planted and existing trees decrease the amount of carbon dioxide in the atmosphere. Trees play an important ecological role within the urban environment, as well as support improved public health and provide aesthetic benefits to cities. In one year, a single mature tree will absorb up to 48 pounds of carbon dioxide from the atmosphere, and release it as oxygen. The amount of oxygen that a single tree produces is enough to provide one day's supply of oxygen for people. So, while you are busy studying and working on earning those good grades, all the trees on campus are also working hard to make the air cleaner for us. Trees on our campus impact our mental health as well; studies have shown that trees greatly reduce stress, which a huge deal is considering many students are under some amount of stress.

Auditing for Carbon Footprint

Commutation of stakeholders has an impact on the environment through the emission of greenhouse gases into the atmosphere consequent to burning of fossil fuels (such as petrol). The most common greenhouse gases are carbon dioxide, water vapour, methane, nitrous oxide and ozone. Of all the greenhouse gases, carbon dioxide is the most prominent

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greenhouse gas, comprising 402 ppm of the Earth's atmosphere. The release of carbon dioxide gas into the Earth's atmosphere through human activities is commonly known as carbon emissions. An important aspect of doing an audit is to be able to measure your impact so that we can determine better ways to manage the impact. In addition to the water, waste, energy and biodiversity audits we can also determine what our carbon footprint is, based on the amount of carbon emissions created. One aspect is to consider the distance and method travelled between home and University every day. It undertakes the measure of bulk of carbon dioxide equivalents exhaled by the organization through which the carbon accounting is done. It is necessary to know how much the organization is contributing towards sustainable development. It is therefore essential that any environmentally responsible institution examines its carbon footprint.

Methodology of Green and Environment Auditing

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The criteria, methods and recommendations used in the audit were based on the identified risks. The methodology includes: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the document, interviewing responsible persons and data analysis, measurements and recommendations. The methodology adopted for this audit was a three-step process comprising of:

1. Data Collection – In preliminary data collection phase, exhaustive data collection was performed using different tools such as observation, survey communicating with responsible persons and measurements.

Following steps were taken for data collection:

- > The team went to each department, centres, Library, canteen etc.
- Data about the general information was collected by observation and interview.
- The power consumption of appliances was recorded by taking an average value in some cases.
- 2. Data Analysis Detailed analysis of data collected include: calculation of energy consumption, analysis of latest electricity bill of the campus, understanding the tariff plan provided by the Chhattisgarh State Electricity Board (CSEB). Data related to water usages were also analysed using appropriate methodology.
- 3. Recommendation On the basis of results of data analysis and observations, some steps for reducing power and water Consumption were recommended. Proper treatments for waste were also suggested. Use of fossil fuels have to be reduced for the sake of community health. The above target areas particular to the University was evaluated through questionnaire circulated among the students for data collection. Five categories of questionnaires were distributed.



4.0 Post-Audit Stage

4.1 Energy Usage:

DETAILS OF ENERGY CONSUMPTION:

	FAN	BULB	AC	SMART BOARD	COMPUTER	Wattage Avg.
OFFICE	2	4	1	NIL	1	3895
LIBRARY	8	8	NIL	NIL	3	969
HALL	9	8	NII	N11	NIL	936
STAFF ROOM	2	3	NII.	NII	. 5	427
PRINCIPAL OFFICE	2	6	1	NII	1	3895
IQAC ROOM	-1	8	1	NII.	5	4251
SMART CLASS I	4	4	NIL	1	NII.	482
SMART CLASS 2	4	4	NIL	40	NIL	482
TOILET	NII.	2	NII	NII	NII	72
CLASS ROOM 1 TO 11	44	40	NIL	NIL	NII	4752

		HOSTEI	. BUIL	DING		
	FAN	BULB	AC	SMART BOARD	COMPUTER	Wattago Avg.
NSS	4	1	N11	NII.		467
SPORTS ROOM	6	6	NIL	NII	1	683
STAFF ROOM	2	2	1	NIL	NIL	3716
TOILET	1	2	NII	NII	NII	144
CLASS ROOM 1 to 8	18	20	NII	NII	NIL	2016

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4.2 Water Usage:

Water Storage Tank Capacity in Litre

SI No.	Location	No.of Tank	Tank Capacity (Ltr)	Storage Capacity (Ltr)	Total Storage (Ltr)	
	Callege Building	2	500	1000	2000	
	College Building	2	500	1000		
	Total Water Storage					

Water Supply to College in Litre/ Day

SI No.	Source Of Water	kW Rating	Location	Rated Flow (LPM)	Pump Running Minute /Day	Supply Ltr/Day	% age of Supply Water
1	Submersible Pump	3.7	Building	600 to 3600	350	60080	60

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Existing water management methods installed in the campus

Sl No.	Source of ground recharger	Numbers
1	Rain water harvesting	4 Nos

4.3 Waste measure and its disposal

MONTHLY PAPER DETAILS:

SI No.	Details of Pa	New	Paper	Waste Paper			
	Paper	Unit	New paper	News Paper	Waste paper	News & Other Paper	
1	Paper Packet (A4 Size)	No	5000	60	500 kg	60	
2	Weight Per packet (kg)	Kg/ Packet	2.50 kg	5 kg	0.5 kg	5 kg	
	Total Weight	Kg	25 kg	5 kg	0.5 kg	5 kg	

Existing waste management methods practiced

- Cleaning the campus on daily basis.
- > Segregation of waste into degradable and non-degradable by the cleaning staff.
- Waste bin's in placed in corridors, office and staff rooms.
- E-waste and plastic waste disposal at municipal collection center.
- > Campaigns for reduce, reuse and recycle.
- Special arrangement for exist of waste water from chemical lab.

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4.4 Greenery in Campus

- Ratio of Open Space to total Area 35:65
- > Total area in campus covered with forest vegetation: 2670.92 Sq Mtr
- > Total area on campus covered in planted vegetation: 1942.49 Sq Mtr
- > Total area on campus for water absorption beside forest and planted vegetation: 668.902 Sq Mtr

Existing trees details in the campus

S.No.	Local Name	Botanical Name	Number of Plants	
1	Ashoka	Sarca indica	30	
2	Angelonia	Angelonia angustifolia	6	
3	Areca palm	Dypsis lutescens	30	
4	Cupress	Cupressus	2	
5	rubber plant	Ficus elastica	4	
6	Dieffen	Dietfenbachia	12	
7	china palm	Livistona chinensis	7	
- 8	arelia	Spikenards	4	
9	croton	Codiaeum variegatum	6	
10	Kaner	Nerium oleander	15	
11	tecoma gauri	Bignoniaceae	3	
12	ribbon grass	Phalaris arundinacea	6	
13	pichodia palm	Licuala grandis	4	
14	christmas tree	Araucaria columnaris	10	
15	juniperus	Jumperus	8	
16	snake plant	Dracaena trifasciata	6	
17	zamia palm	Zamia furturacea	4	
18	poligas palm	Arecaceae	4	
19	ficus palm	Cycas revoluta		
20	dracaena	Dracaena	6	
21	Mandar	Hibiscus rosa-sinensis	· ·	
22	Vidya	Thuja occidentalis L.	11	
23	akzora plant	West Indian Jasmine	q	
2.4	Gulab	Rosaceae	22	
25	doodh mogra	Jasminum sambac	8	
26	Bonita begonia	Begonia 'Bonita Shea'		
27	Amla plant	Phyllanthus emblica	3	
28	satvan plant	Alstonia scholaris	5	
29	gulmohar	Delonix regia	***************************************	
30	nag champa	Plumeria Pudica	3	
31	Kadam tree	Neolamarckia cadamba	2	
32	shantilata	Nyctanthes arbor-tristis	1 - 1 - 1	
33	Nariyal	Cocos nucifera	15	
34	euphorbia	Euphorbia	2	
35	Kunda bel	Jasminum multiflorum	5	
36	Badam	Prunus dulcis	15	
37	Bandan	Ougeinia objemensis	3	
38	parijat	Nyctanthes arbor-tristis		
39	amrud	Psidium	1	



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5.0 Conclusion and Recommendations

Green and Environment Audit is the most efficient way to identify the strength and weakness of environmental sustainable practices and to find a way to solve problem. Green Audit is one kind of professional approach towards a responsible way in utilizing economic, financial, social and environmental resources. Green audits can "add value" to the management approaches being taken by the university and is a way of identifying, evaluating and managing environmental risks (known and unknown). There is scope for further improvement, particularly in relation to waste, energy and water management. The university in recent years consider the environmental impacts of most of its actions and makes a concerted effort to act in an environmentally responsible manner. Even though the University does perform fairly well, the recommendations in this report highlight many ways in which the university can work to improve its actions and become a more sustainable institution.

Major Audit Observations

- i) Use of notice boards and signs are inadequate to reduce over exploitation of natural resources.
- ii) Programs on green initiatives have to be increased. Campus is declared plastic free, stringent actions should be taken to maintain this.
- iii) Existing Rain water harvesting systems, solar power generation, environmental education programs have to be strengthened.
- iv) Display boards against the misuse of water use are lacking.
- v) Display boards for awareness in relation to energy conservation is found inadequate.
- vi) There are fans of older generation and non-energy efficient which can be phase out by replacing with new energy efficient fans.
- vii) Solid waste management systems established are insufficient.
- viii) Waste bins in the class rooms, veranda, canteen and campus are inadequate.
- ix) Regular planting of trees in the campus Can be increased.
- x) Display boards to all plants & trees identified, Should be increased.
- xi) There is only very few fruit trees in the University to attract birds.
- xii) College has not yet taken any initiative for carbon accounting.



Recommendations:

Water

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- i. Remove damaged taps and install sensitive taps is possible.
- ii. Awareness programs on water conservation to be conducted.
- iii. Install display boards to control over exploitation of water.

Environment

 Arrange training programmes on environmental management system and nature conservation.

Energy

- i. Establish a purchase policy that is energy saving and eco-friendly.
- ii. Replace incandescent and CFL lamps with LED lights.
- iii. Conduct seminars, workshops and exhibitions on environmental education.
- iv. Establish water, energy and waste management systems.
- v. Increase the number of display boards on environmental awareness such as save water, save electricity, no wastage of food/water, no smoking, switch off light and fan after use, plastic free campus etc.
- vi. Replace old fans with energy efficient fans.
- vii)Replace Window AC with Split AC

Waste

- i. Conduct exhibition of recyclable waste products.
- ii. Conduct more seminars and group discussions on environmental education.
- iii. Remove damaged taps and install sensitive taps is possible.
- iv. Practice of waste segregation to be initiated.
- v. Avoid plastic/thermocol plates and cups in the University level or department level functions.
- vi. Establish an E-waste collection center in campus.

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Green Campus

- i. All trees in the campus should be named scientifically.
- ii. Create more space for planting.
- iii. Grow potted plants at both verandah and class rooms.
- iv. Create automatic drip irrigation system during summer holidays.
- v. Not just celebrating environment day but making it a daily habit.
- vi. Beautify the University building with more indoor plants.
- vii. Conducting competitions among departments for making students more interested in making the campus green.

Carbon footprint

- i. Establish a system of car pooling among the staff to reduce the number of four wheelers coming to the University.
- ii. Encourage students and staff to use cycles.

Commitments after Green and Environment Auditing

In the light of green and environment audit the university should, adopt some additions in the vision and mission statements promoting compliance with environmental laws and regulations for sustainable existence of the university.

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CERTIFICATION

This Part shall indicate certification by Certified Energy Auditor stating that:

- I. The data collection has been carried out diligently and truthfully.
- II. All data monitoring devices are in good working condition and have been calibrated or certified by approved agencies authorized and no tampering of such device has occurred.
- III. All reasonable professional skill, care and diligence had been taken in preparing the Green & Environment Audit Report and the contents thereof are a true representation of the facts.
- IV. Adequate training provided to personnel involved in daily operation after implementation of recommendation.

Signature:

Name of the Certified Energy Auditor: Mr. Rahul Agrawal Certification Detail: EA-20984

Pahul Ag





Registration Number: D-DURG-159/2016-17

Phone Number: 9098148400

Email-id: greenserve.energy@gmail.com

Date: 05/12/2022

Certificate

This is to certify that a "Green Audit & Environment Audit", for D.P.Vipra Law College, Bilaspur has been conducted in November-2022 to assess the green initiatives planning and efforts implemented in the college campus like Green Campus Management, Plantations, Waste Management and Rainwater Harvesting, Conservation of Energy. This audit is also aimed to assess the impact of green initiatives in developing an ecofriendly campus.

Mr. Rahul Agrawal Certified Energy Auditor (EA-20984)

Place: Durg (C.G.)



D.P. VIPRA LAW COLLEGE BILASPUR (C.G.)

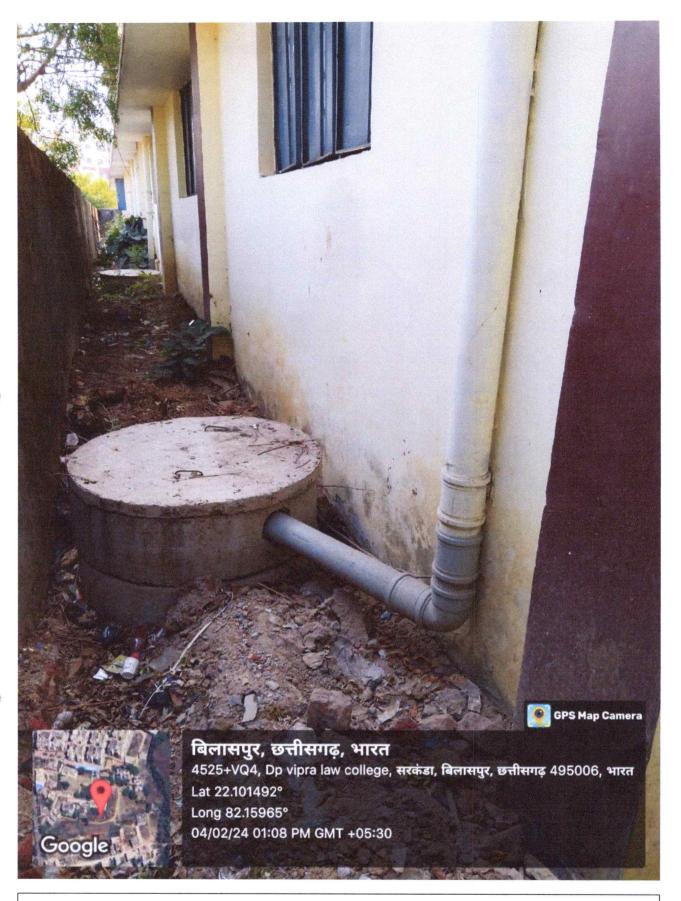
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Affiliated to Atal Bihari Vajpayee Vishwavidyalaya Bilaspur (C.G.)

Appendix - III

D.P. Vipra Law College Bilaspur

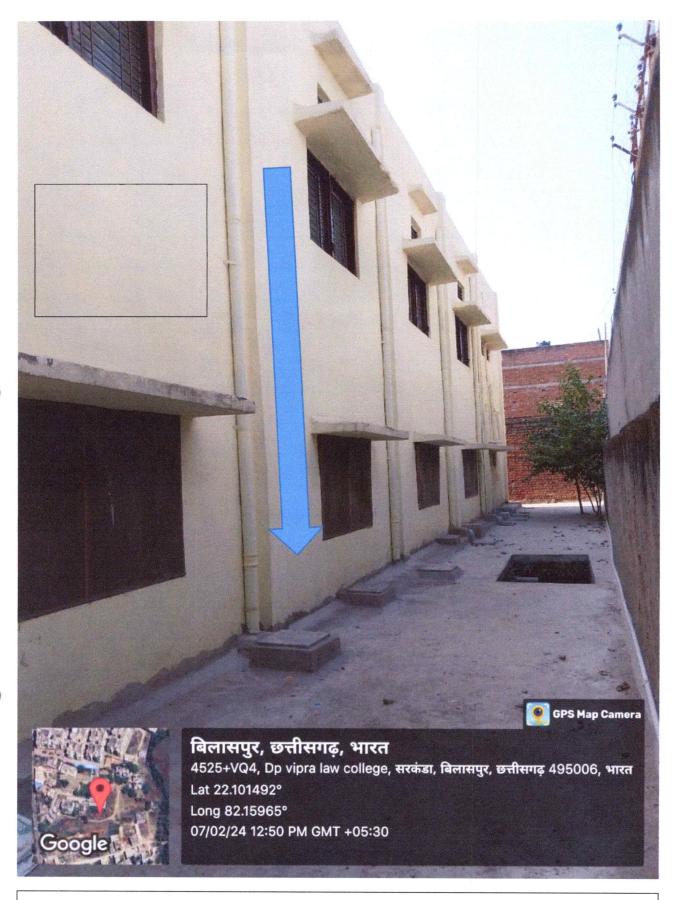
Ashok Nagar, Seepat Road, Sarkanda, Bilaspur (C.G.)

GEOTAG PHOTO OF RAIN WATER HARVESTING



RAIN WATER HARVESTING SYSTEM





RAIN WATER HARVESTING SYSTEM

D.P. VIPRA LAW COLLEGE Bilaspur (C.G.)



RAIN WATER HARVESTING TANK

FLOW DIAGRAM OF RAIN WATER HARVESTING

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RAIN WATER PIPE PILE OVER FLOW RAIN WATER PIPE

RAIN WATER HARVESTING LAYOUT

CG JAL SANJEEVAN KENDRA

MONESH KUMAR PANDEY

(GEO-HYDROLOGIST)

Mob. No. - 8517032606

REGISTERED GEO-HYDROLOGIST IN RAIPUR MUNICIPAL CORPORATION & INDIAN ASSOCIATION OF HYDROGEOLOGIST, M.Sc. In Geology, Mining & Environment Plan Consultant, Environmental Impact Assessment Consultant.

Actual Site Photographs:





PANDEY Regd. HYDROGEOLOGIST

L.N. - 818/2016-17 L.M.No. - 1913

D.P. VIPRA LAW COLLEGE Bilaspur (C.G.)

CG JAL SANJEEVAN KENDRA

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Actual Site Photographs:



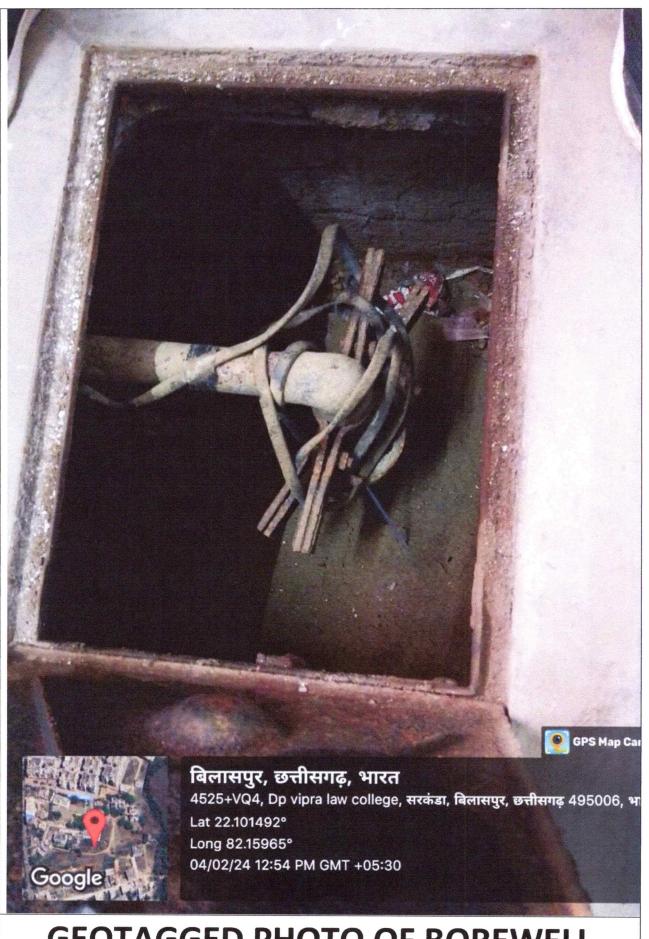




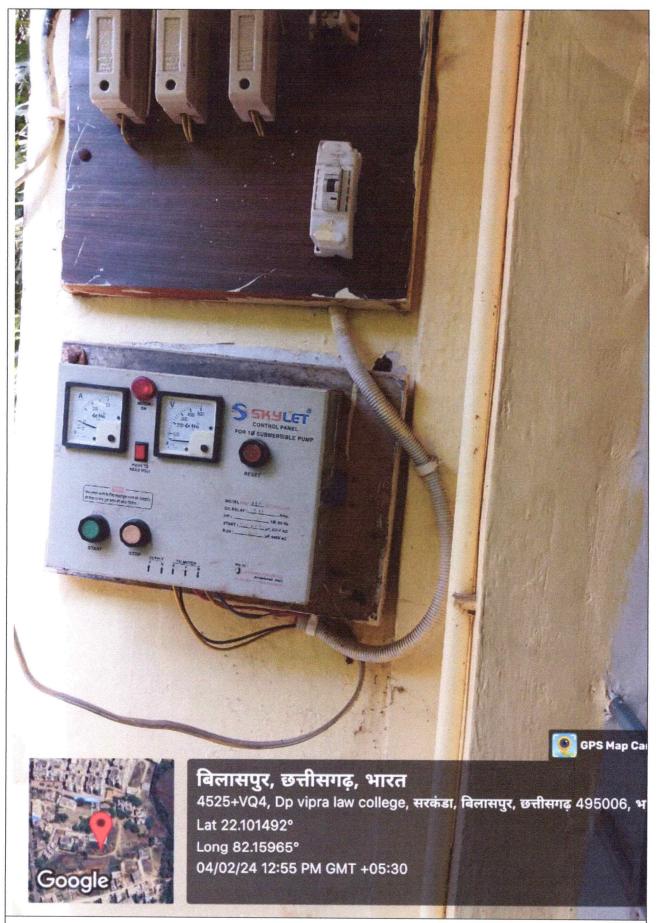
PANDEY
Regd. HYDROGEOLOGIST
& Rainwater Harvesting Consultant
From R.M.C.
1.N. - 818/2016-17
Member of IHA, Egorisee
L.M.No. - 1913



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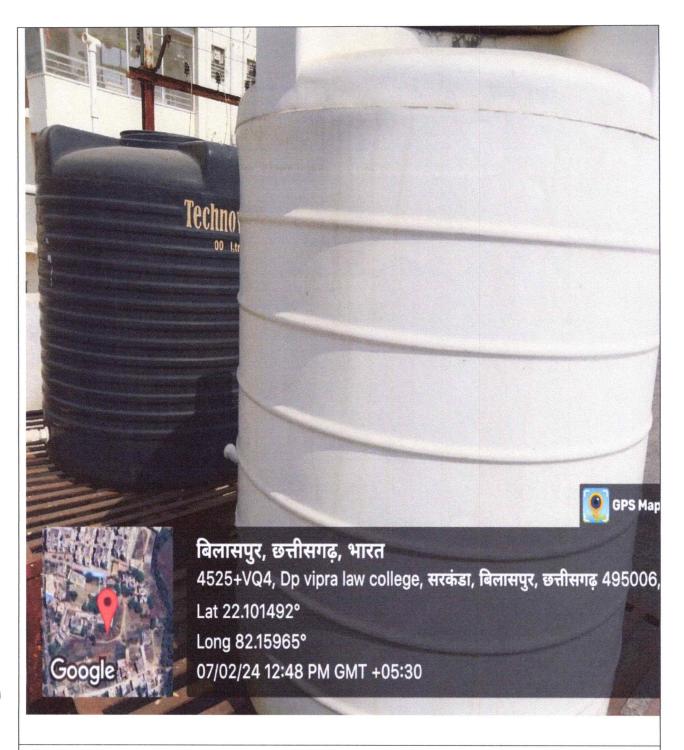


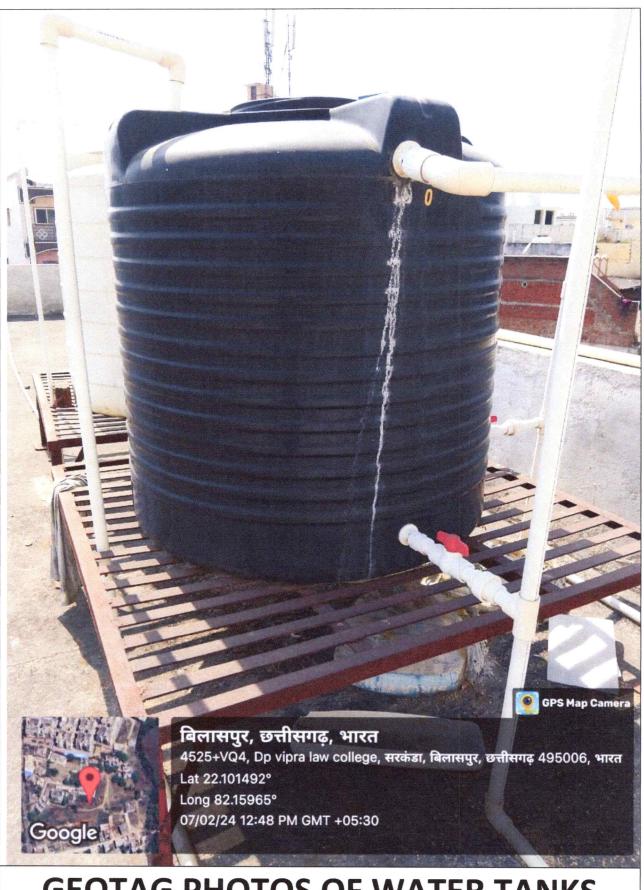
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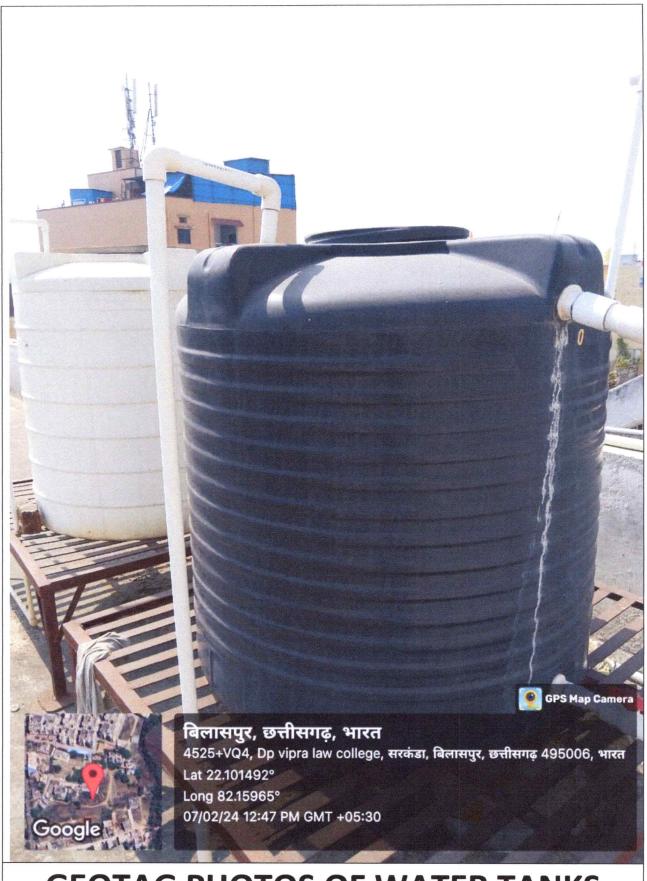


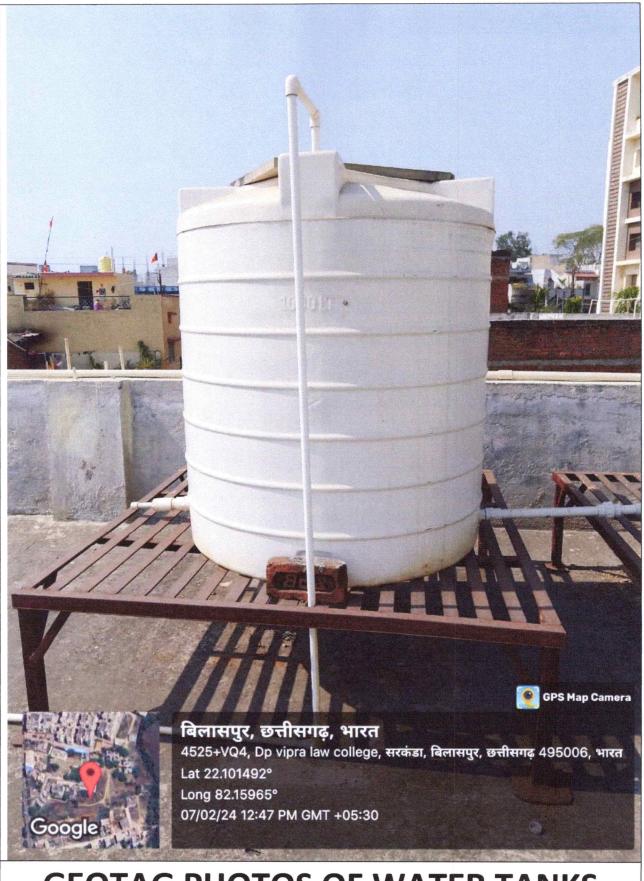
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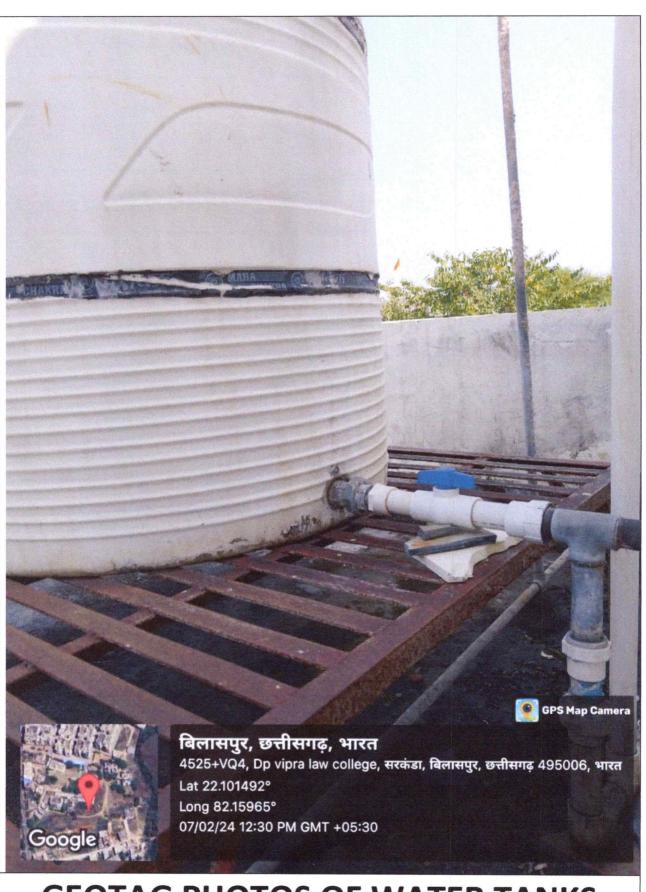
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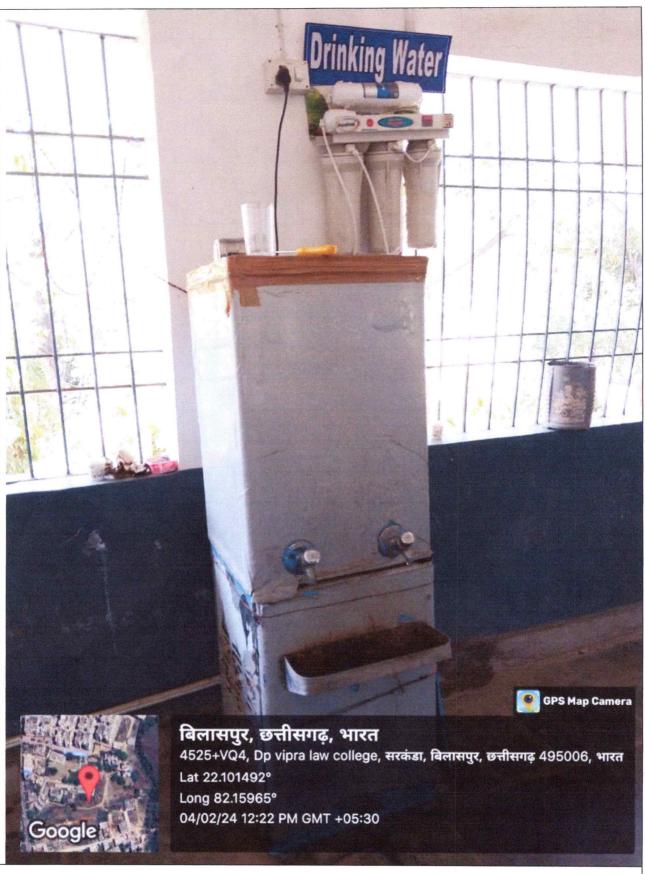




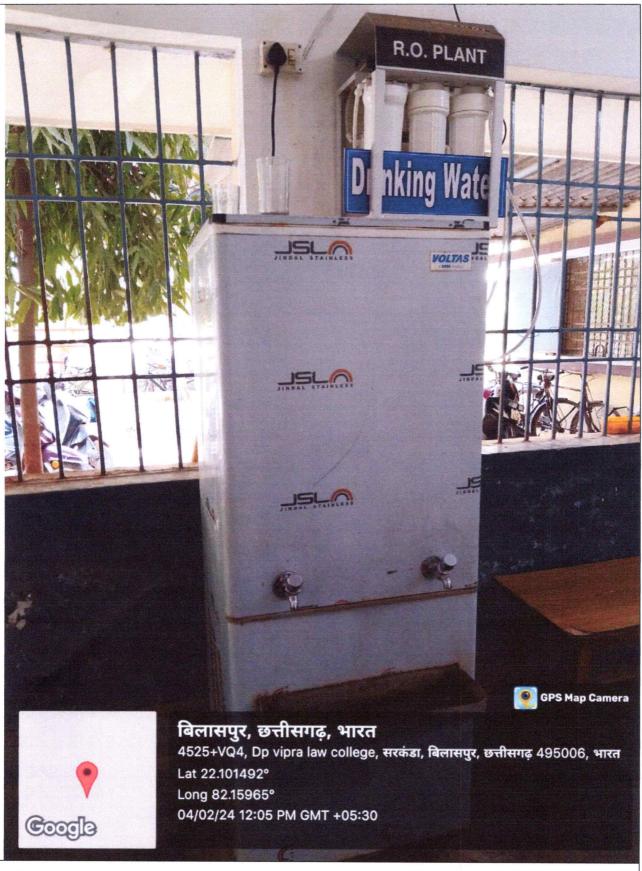








GEOTAG PHOTO OF WATERCOOLER



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