





**D.P. VIPRA COLLEGE
BILASPUR**
ACCREDITED "A" GRADE BY NAAC

7.1.6

Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives

D.P. Vipra College

Old High Court Road, Bilaspur
Chhattisgarh, India 495001



OFFICE OF THE PRINCIPAL
D. P. VIPRA COLLEGE, BILASPUR (C.G.)

Accredited "A" by NAAC, ISO-9001:2015 Certified
Phone No.- 07752-424497, Web. – www.dpvipracollege.in, Email- dpvipracollege@gmail.com

Summary-Sheet


Criteria	7 – Institutional Values and Best Practices
Key Indicator	7.1 Institutional Values and Social Responsibilities
Metric	7.1.6: Quality audits on environment and energy are regularly undertaken by the institution. 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities
<p>Quality audits on environment and energy are regularly undertaken by the institution.</p> <p>1.Green audit. 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities</p> <p>Selected Option for the above measures</p> <p style="text-align: center;">A</p> <p style="text-align: center;">Any 4 or all of the above</p>	

Note:

Since all supporting documents for this metric exceeds the upload limit of 5Mb, hence we have hosted the scanned documents as per SOP on institutional website on the following links.

Description	Relevant link
1) List of Quality audits on environment and energy are regularly undertaken by the institution is attached. (Appendix-I)	https://dpvipracollege.in/wp-content/uploads/2022/04/7.1.6.pdf
2) Relevant supporting documents are attached. (Appendix-II)	


IQAC Co-ordinator
D.P. Vipra College
BILASPUR (C.G.)
IQAC Coordinator


PRINCIPAL
D.P. Vipra College
Bilaspur (C.G.)
Principal



**D.P. VIPRA COLLEGE
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Appendix I

D.P. Vipra College

Old High Court Road, Bilaspur

Chattisgarh, India 495001



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12:02:2019

GREEN CAMPUS POLICY

D.P Vipra College and its association with mother nature has been long and all the members housing the campus are pretty aware of the fact to work for its sustenance. The college has taken an initiative to create a campus which is student friendly, pollution free and subsequently a green campus. The Green Campus, Energy and Environment Policies are intended to develop exciting new co-curricular and extracurricular practices that encourage students to take the lead in creating positive change.

SCOPE OF POLICY: Green Campus initiatives works on many facets and the focus areas of the policy are:

1. Clean Campus initiatives

2. Landscaping Initiatives

3. Clean Air Initiatives-

- Smoking Free Campus
- Restricted entry of automobiles

4. Infrastructure-

- Solar Power Plant
- Installation of Energy Efficiency Equipment
- Water Conservation through Rainwater Harvesting System

5. Waste Management processes-

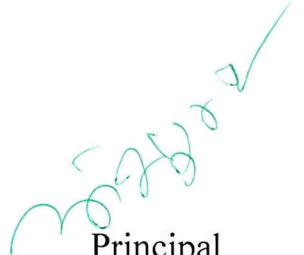
- Solid Waste Management

- Liquid Waste Management
- E-Waste Management

6. Awareness Initiatives
7. Environment-centric Student Societies and Department Activities
8. Green and Environment Audit
9. Energy Audit
10. Plastic-Free Campus

OBJECTIVE OF THE POLICY:

- 1 To protect and conserve ecology and natural resources within the campus.
2. To integrate environmental awareness program into plans, policies for outreach activities and social initiatives.
3. To continuously improve the efficient use of allrecourses of energy and water.
4. To promote recycling system and proper waste management.
5. To promote e-governance.


Principal
D.P. Vipra College
Bilaspur (C.G.)

•प्राचार्य•
डी.पी.विप्र महाविद्यालय
बिलासपुर (छ.ग.)

GREEN AUDIT AND EENVIRONMENTAL AUDIT REPORT



2020

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



May 2020

Prepared By:

Greenserve Energy Management Solutions

Vijay Nagar,

Durg (C.G.) - 491001



Acknowledgement

We are thankful to the Chairman Shri Anurag Shukla and the Principal Dr. Anju Shukla of the D. P. Vipra 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	Ponraja N	Certified Energy Auditor
3	Jayendra Mohabe	Senior Energy Engineer
4	Bhumesh Jagnit	Energy Engineer





Table of Contents

1.	Executive Summary.....	3
2.	Introduction	4
2.1	About D. P. Vipra College.....	4
3.	Pre Audit Stage.....	8
4.	Post Audit Stage.....	14
4.1	Energy Usage	14
4.2	Water Usage	17
4.3	Water Measure & Its Disposal	19
4.4	Greenery in Campus	19
5	Conclusion & Recommendations	20-21



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 College, Near Old High Court Road Bilaspur, 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 college 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 facts 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 college operational costs and the environment. The criteria, methods and recommendations used in the audit are based on the identified risks



2. Introduction

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 college 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 the College

The Year 1969 marks the beginning of college education in this area. With inspiration of Shri Rameshwar Prasad Sharma, Chairman, Laxamaneshwar Shikshan Samiti, Kharod and by great efforts of Prof. Ram Narayan Shukla a night college in Bilaspur could be established. This college was affiliated to Ravi Shankar Vishwavidyalaya, Raipur in 1969-1970 and the College Education Department of M.P. Government also accorded its recognition. The college was inaugurated on September 11, 1969 by then Vice Chancellor of Ravi Shankar University, Shri Banshi Lal Pandey, I.A.S. Later as the result of strong demand by students, day teaching began in July-August 1970. Ravi Shankar University, Raipur accorded permission to change the name of night College and the college was called degree college, Bilaspur. A few years later i.e. in July 1982 the College was named as D.P. Vipra College after the name of the eminent literary figure Pt. Dwarika Prasad Tiwari 'Vipra', ex-president of the college Management committee. D.P. Vipra College has become a centre of attraction for the enlightened students who have, great zeal and thirst for knowledge. Teaching in all subjects is being done by able, experienced, skill and learned professors.

The College has earned a name in academic, curricular, co-curricular and extra-curricular activities. Besides having a big, well established central library Departments of Science have their Departmental Libraries. We have two units of NSS and one unit of Red Cross which confirms commitment of the college towards social services. Likewise college has NCC unit of two platoons having strength of 107. NCC plays a vital role in shaping the personality of the students by teaching time discipline, societal service & self-help. Sports Dept. of the college is very active and always occupies enough space in media on student's achievement. Dr. S.K. Tiwari, Head, Dept of English has been publishing & editing two research journals of repute since 2006.



The College is known for its high academic standards, and the student's bag university ranks on a continuous basis. The college offers 05 UG and 03 PG programmes. The college offers Ph.D programmes in 07 disciplines. Till now 24 students have been pursuing their doctoral studies currently. Out of 74 permanent faculty, 28 are Ph.D. holders. The college has received funds and grants from funding agencies like UGC. The college also partners with MHRD in programmes like Ek Bharat Shrestha Bharat. The College was sanctioned Rs. 2 crore for infrastructure development under RUSA in Chhattisgarh.

The infrastructural facilities include 30 ICT enabled class rooms, 01 seminar halls, 01 video conferencing hall, 18 well equipped laboratories 03, computer labs, digital library, etc. The college library has 45989 books and 30 journals as of now. The Principal along with the staff with their vast experience and broad vision, support the dynamisms and ambitious plan of Shri Anurag Shukla, Chairman of governing body, to take the institute to great heights.

VISION AND MISSION

Institutional Vision

Our Institution's motive is "Shraddhavan Labhte Gyanam" and our institute is trying hard to achieve it. The motto of D.P. Vipra College forms the core philosophy of the institution. At the heart of the institution, lies its commitment to education and learning, its ingrained ideology towards individual growth, community building and national development through the spread of knowledge as a lighting beacon on the path evolving to certitude enlightenment.

The vision is the vis major of an institution, the driving force behind its actions and the axis on which its energies are focused. Envisioned by its founder, to be an institution with a purpose of fostering meaningful education.

Mission

The mission statement of the College, signifying the existence and its road map to the achievement of its vision, read as:

"To achieve and sustain excellence in teaching and research, and enriching local and national communities through our research, the skills of alumni, and the publishing of academic and educational materials"

A detailed description of the mission statement reads as:

- To excel in innovative and quality teaching pedagogy and to provide a holistic learning experience to students.
- To identify, tap, nurture and hone talent of individuals of a diverse base enabling them to realize and maximize their potential, excel in their academic and non-academic pursuits and developing them to be leaders of tomorrow.
- To achieve and promote excellence in publications.
- To develop human resources, infuse quality of leadership and create a competitive pool of scholars.



- To foster outreach, community building and empowerment initiatives at national level.
- To maintain and promote quality, transparency, compliance and sustainability in governance and service delivery.
- To collaborate and work with leading national and international institutions and organizations.
- To ensure outstanding environment-friendly infrastructure and facilities to its users.
- To encourage active participation in sports for complete physical and mental health of students.

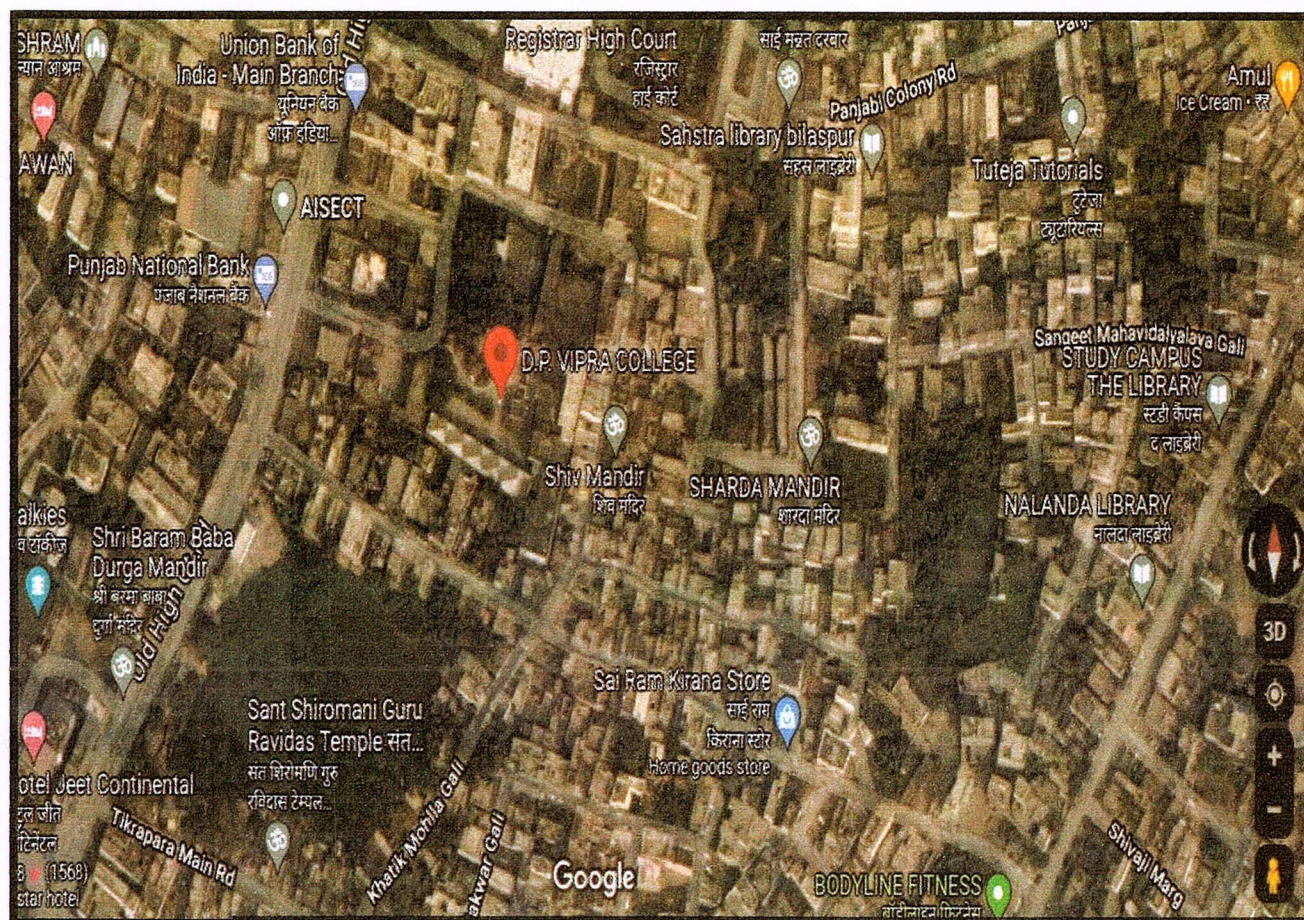
Objectives of the College

- With the vision and mission clearly defined, the College has the following formally stated objectives as the basis for creating policy towards its vision and mission:
- To improve the quality and relevance of academic programmes by introducing innovation and customization of pedagogy to enhance student learning and to develop quality learning contents.
- To hone the potential of students towards their academic and individual growth, develop leadership and entrepreneurial capabilities in them; to stimulate them to pioneer innovation and reach out beyond curriculum; to instill values and morals and develop students to be designers of change and transformation in the country.
- To elevate the quality, quantity, accessibility, impact and effectiveness of research.
- To promote engagement in state and national level extra-curricular, outreach, community building and empowerment initiatives.
- To become the first choice of employees by treating positions as human first, developing an organizational culture to raise effectiveness and efficiency in functioning.
- To create, maintain and innovate infrastructure and service dynamics matching the institutional requirement.
- To introduce requirement-based technology, making information easily accessible to the community, sincerity and commitment in following established statutes and maintaining adaptability to the dynamic state of governance.
- Tapping the alumni and community network, adopting environment caring practices for conservation and utilization.



Location:

D. P. Vipra College, Bilaspur and the GPS Coordinates of the college is **22.074961, 82.164601**.



Total Campus Area & College Building Spread Area

Campus area	2.520 Acre
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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 college 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 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 College and its environment
- Enhancement of college 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 college.

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 liters 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.



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 college. 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 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 college 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 college 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:

SATYAM BUILDING

Sl.No.	Location / Room No.	KWh/Day
1	Chairman Room	9.46
2	Principal office	9.33
3	Account Department	18.77
4	Room No-4	7.69
5	PRO	3.63
6	Smart Class-03	15.52
7	Room No-6	7.17
8	Smart Class-04	7.61
9	ICT Room & Conference Hall	8.62
10	Emergency	3.91
11	TEA	1.32
12	C 1	3.99
13	C 2	1.51
14	Room No-101	2.97
15	Room No-102	2.97
16	Room No-103	2.97
17	Room No-104	2.97
18	Room No-105	2.97
19	Room No-106	2.97
20	Room No-107	2.97
21	Mathematics Department	5.36
22	Room No-202	2.97
23	Room No-203	2.97
24	Electronics Department	2.97
25	Management Departmental Room	1.23
26	Zoology Lab	10.64
27	Botany Lab	13.68
Total		159.11

**SHIVAM BUILDING**

Sl.No.	Location / Room No.	KWh/Day
1	S C 1	6.84
2	S C 2	6.84
3	C 2	0.50
4	History Department	4.84
5	Salary Department	2.94
6	Chemistry Department	19.64
7	Room No-109	5.94
8	Physics Department	20.68
9	Computer Department	193.15
10	Microbiology Department	14.07
11	Geography Department	9.51
12	Biochemistry Department	30.50
13	Biotechnology Department	6.76
Total		322.2

Library		
Sl.No.	Location / Room No.	KWh/Day
1	Library	57.28
Total		57.28

SUNDARAM BUILDING

Sl.No.	Location / Room No.	KWh/Day
1	Hindi Department	3.21
2	English Department	5.70
3	NCC Department	4.65
4	Political Science Department	3.21
5	Sociology Department	5.63
6	Economics Department	4.65
7	Sports Department	6.76
8	Commerce Department	4.65
9	Room No-110	5.94
10	Room No-112	2.97
11	Room No-113	2.97
12	Room No-206	5.68
13	Room No-207	5.92
Total		61.94

**PUSHPARAJ BUILDING**

Sl.No.	Location / Room No.	KWh/Day
1	Room No-1	1.48
2	Room No-2	1.48
3	Room No-3	1.25
4	Room No-4	1.25
5	Room No-5	1.25
6	Room No-6	1.25
7	Room No-7	1.25
8	Room No-8	1.25
9	NSS Department	7.34
10	Gym	2.49
Total		20.27

AUDITORIUM BUILDING

Sl.No.	Location / Room No.	KWh/Day
1	Conference Room	15.6
Total		15.6



4.1 Water Usage:

Water Storage Tank Capacity in Litre

Sl No.	Location	No.of Tank	Tank Capacity (Ltr)	Storage Capacity (Ltr)	Total Storage (Ltr)
1	College Building	1	15000	15000	20000
		3	1000	3000	
		4	500	2000	
	Total Water Storage				20000

Water Supply to College in Litre/ Day

Sl No.	Source Of Water	kW Rating	Locati on	Under Control	Rat ed Flo w (LP M)	Pump Runni ng Minut e /Day	Suppl y Ltr/D ay	% age of Sup ply Wat er
1	Submersible Pump (2 HP)	1.5	Colleg e	College premises	500	66.66 4	1000 0	50
2	Submersible Pump (2 HP)	1.5	Buildi ng		500	66.66 6	1000 0	50
Total Water Supply							2000 0	



College Building water Consumption Litre / Day

Sl No	Location	Qty. (Nos.)	No.of Tab	Water Cons. Litre./Day	Water Cons. (%)	Water Outlet to	Remark
1	Administration Committee office	1	3	150	1.31	Ground	
2	Principal office	1	3	150	1.31	Ground	
3	Back Old	1	4	200	1.75	Ground	
4	Back New	2	3	750	6.55	Ground	
5	Smart Class	1	3	150	1.31	Ground	
6	Chemistry Department	1	50	2500	21.83	No	
7	Bathroom Back of Chemistry Departm	1	10	250	2.18	NO	
8	Micro-Biology Department	1	23	1150	10.04	NO	
9	Geography Department	1	5	250	2.18	Water Harvesting	
10	Biotechnology	1	4	200	1.75	Water Harvesting	
11	Third Floor Bathroom	1	10	500	4.37	Water Harvesting	
12	Computer Department	1	4	200	1.75	No	
13	Zoology Department	1	2	100	0.87	No	
14	Botonny Department	1	6	300	2.62	No	
15	Library	1	21	1050	9.17	No	
16	Social Science Department	1	5	250	2.18	No	
17	Bathroom (Pushpa raj Building)	1	5	250	2.18	Ground	
18	Ground Area	1	9	450	3.93	Ground	
19	Auditorium Bathroom	1	4	200	1.75	Ground	
20	Cycle Stand Bathroom	1	10	500	4.37	Ground	
21	Warden Room	1	1	50	0.44	Ground	
22	NCC Department	1	5	250	2.18	Ground	
23	Sports Department	1	5	250	2.18	Ground	
24	Physics Department	1	9	450	3.93	Ground	
25	Borewell Pump	1	2	100	8.70	Ground	
26	Tulu Pump	1	1	50	4.35	Ground	
27	Water Freezer	1	4	200	17.39	Ground	30 % Water Use
28	Biochemistry department	1	1	50	4.35	Ground	
29	1st Floor Bathroom	1	3	150	13.04	Ground	
30	Inside Auditorium Bathroom	1	7	350	30.43	Ground	
	Total water Consumption			11450	100.00		



Existing water management methods installed in the campus

Sl No.	Source of ground recharger	Total	Location	Quantity (No.)
1	Rain water harvesting	1	College Building	1

4.3 Waste measure and its disposal

MONTHLY PAPER DETAILS:

Sl No.	Details of Paper		New Paper		Waste Paper	
	Paper	Unit	New Paper	News paper	Waste Paper	News & Other Paper
1	Paper Packet (A4 Size)	No.	25	210	5	
2	Weight Per Packet (Kg)	Kg / Packet	2.20	0.10	2.20	10
	Total Weight	Kg	55	21	11	10
					21	

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.

4.4 Greenery in Campus

Campus tree cover – 0.5 Acre (Approx)

Existing trees details in the campus



S.No.	Local Name	Botanical Name	Number of Plants
1	Ashoka	<i>Sarca indica</i>	30
2	Neem	<i>Azardirachta indica</i>	7
3	Gulmohar	<i>Cegilpinia pulcherrima</i>	1
4	Karanja	<i>Pongamia pinnata</i>	5
5	Nilgiri	<i>Eucalyptus</i>	2
6	Dracaena	<i>Dracaena</i>	5
7	Kela	<i>Musa indica</i>	4
8	Ratanjot	<i>Jatropha curcas</i>	3
9	Agave	<i>Agave americana</i>	20
10	Palm	<i>Areca pam</i>	25
11	Tuha	<i>Euphorbia milii</i>	3
12	Patharchatta	<i>Kalanchose pinnata</i>	5
13	Kaner	<i>Nerium olender</i>	5
14	Ixora	<i>Ixora</i>	5
15	Jasmine	<i>Jasminun mogra</i>	10
16	Croton	<i>Soribus rotundifolius</i>	12
17	Gudhal	<i>Hibiscus rosa-sinesis</i>	20
18	Tendu	<i>Diosyros melanoxyton</i>	3
19	Gulab	<i>Rosa sinensis</i>	20
20	Cycas	<i>Cycas revolute</i>	10
21	Sadasuhagan	<i>Vinca rosia</i>	2
22	Lotus	<i>Nulumbo nucifera</i>	2
23	Clove Pink	<i>Dianthus caryophyllous</i>	4
24	Botal Brush	<i>Collistemon lanceolatus</i>	2
25	Hadge	<i>Golden hadge</i>	200
26	Salvia	<i>Salvia splendens</i>	7
27	Tulsi	<i>Ocimum sanctum</i>	10
28	Champa	<i>Magnolia champaca</i>	5
29	Aurucaria	<i>Aurucaria columnaris</i>	3
30	Vidhya Patti	<i>Thuja occidentalis</i>	5
31	Genda	<i>Maxican marigold</i>	20
32	Sonpatti	<i>Bauhinia racemesa</i>	5
33	Chuhimuhi	<i>Mimosa pudica</i>	1
34	Ming Aralia	<i>Polyscias fruticosa</i>	2
35	Red Peacock	<i>Aglaonema commutatum</i>	4
36	Kadam	<i>Neolamarchia cadamba</i>	2
Total			469



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 college 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 college 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 college does perform fairly well, the recommendations in this report highlight many ways in which the college 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) Solar Plant Installed with Capacity of 30 KW
- iii) Programs on green initiatives have to be increased. Campus is declared plastic free, stringent actions should be taken to maintain this.
- iv) Existing Rain water harvesting systems, solar power generation, environmental education programs have to be strengthened.
- v) Display boards against the misuse of water use are lacking.
- vi) Display boards for awareness in relation to energy conservation is found inadequate.
- vii) There are fans of older generation and non-energy efficient which can be phase out by replacing with new energy efficient fans.
- viii) Solid waste management systems established are insufficient.
- ix) Waste bins in the class rooms, veranda, canteen and campus are inadequate.
- x) Regular planting of trees in the campus Can be increased.
- xi) Display boards to all plants & trees identified, Should be increased.
- xii) There is only very few fruit trees in the college to attract birds.



xiii) College has not yet taken any initiative for carbon accounting.

Recommendations:

Water

- 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

- i. 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/thermocool plates and cups in the college level or department level functions.
- vi. Establish an E-waste collection center in campus.



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 college 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 college.
- ii. Encourage students and staff to use cycles.

Commitments after Green and Environment Auditing

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



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

ENERGY AUDIT REPORT



2020

ENERGY AUDIT REPORT OF D.P. VIPRA COLLEGE, BILASPUR (C.G.)



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Acknowledgement

We are thankful to the Chairman Shri Anurag Shukla and the Principal Dr. Anju Shukla of the D. P. Vipra College, Bilaspur for entrusting processes of Energy 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	Ponraja N	Certified Energy Auditor
2	Rahul Agrawal	Certified Energy Auditor
3	Jayendra Mohabe	Senior Energy Engineer
4	Bhumesh Jagnit	Energy Engineer





Table of Contents

1. Executive Summary	6
2. Introduction.....	8
2.1 About D. P. Vipra College	8
2.2 Methodology.....	11
2.3 Instruments used for study	11
2.4 Present Energy Scenario at D.P.Vipra, Bilaspur	13
2.4.1 Source of Electricity.....	13
3. Performance Assessment	16
3.1 Load Analysis	16
3.2 Illumination Survey	18
3.3 Connected Load	19
4. Energy Conservation Measures	21

List of Figures

Figure 1: Connected Load Breakup.....	10
Figure 2: Climatic condition of Bilaspur	12
Figure 3: Voltage profile -.....	17
Figure 4: Current profile	17

List of Tables

Table 1: Connected Load Break up	10
Table 2: Instruments used for the study	11



List of Abbreviations

Word	Meaning
ECM	Energy Conservation Measure
EE	Energy Efficiency
Kva	Kilo Volt Ampere
KVAh	Kilo Volt Ampere hour
kVAr	Kilo Volt Ampere reactive
kW	Kilo Watt
kWh	Kilo Watt hour
PF	Power Factor
RH	Relative Humidity
THD	Total Harmonic Distortion
TR	Tons of Refrigerant
INR	Indian Rupees
kV	Kilo Volt
V	Volt
A	Ampere
EB	Electricity Board
m/s	Meter per seconds
m ²	Meter Square
CFL	Compact Fluorescent Lamp
FTL	Fluorescent Tube Light
LED	Light Emitting Diodes
FY	Financial Year
HP	Horse Power



Section 1: Executive Summary



1. Executive Summary

Energy Saving Potential at a glance:

Sno	Energy saving measures	Investment (Lakh Rs.)	Energy Saving Electricity (kWh/Year)	Annual Energy Cost savings (Lakh Rs.)	Payback Period (Months)
1	Replacement of Existing Light to LED Lights in College Building	0.977	11924	0.835	14
2	Replacement of Existing Ceiling Fan to Energy Efficient Fan in College Building	7.575	20362	1.425	64
	Total	8.552	32288	2.26	45



Section 2: Introduction



2. Introduction

2.1 About D. P. Vipra College

The Year 1969 marks the beginning of college education in this area. With inspiration of Shri Rameshwar Prasad Sharma, Chairman, Laxamaneshwar Shikshan Samiti, Kharod and by great efforts of Prof. Ram Narayan Shukla a night college in Bilaspur could be established. This college was affiliated to Ravi Shankar Vishwavidyalaya, Raipur in 1969-1970 and the College Education Department of M.P. Government also accorded its recognition. The college was inaugurated on September 11, 1969 by then Vice Chancellor of Ravi Shankar University, Shri Banshi Lal Pandey, I.A.S. Later as the result of strong demand by students, day teaching began in July-August 1970. Ravi Shankar University, Raipur accorded permission to change the name of night College and the college was called degree college, Bilaspur. A few years later i.e. in July 1982 the College was named as D.P. Vipra College after the name of the eminent literary figure Pt. Dwarika Prasad Tiwari 'Vipra', ex-president of the college Management committee. D.P. Vipra College has become a centre of attraction for the enlightened students who have, great zeal and thirst for knowledge. Teaching in all subjects is being done by able, experienced, skill and learned professors.

The College has earned a name in academic, curricular, co-curricular and extra-curricular activities. Besides having a big, well established central library Departments of Science have their Departmental Libraries. We have two units of NSS and one unit of Red Cross which confirms commitment of the college towards social services. Likewise college has NCC unit of two platoons having strength of 107. NCC plays a vital role in shaping the personality of the students by teaching time discipline, societal service & self-help. Sports Dept. of the college is very active and always occupies enough space in media on student's achievement. Dr. S.K. Tiwari, Head, Dept of English has been publishing & editing two research journals of repute since 2006.

The College is known for its high academic standards, and the student's bag university ranks on a continuous basis. The college offers 05 UG and 03 PG programmes. The college offers Ph.D programmes in 07 disciplines. Till now 24 students have been pursuing their doctoral studies currently. Out of 74 permanent faculty, 27 are Ph.D. holders. The college has received funds and grants from funding agencies like UGC. The college also partners with MHRD in programmes like Ek Bharat Shrestha Bharat. The College was sanctioned Rs. 2 crore for infrastructure development under RUSA in Chhattisgarh.

The infrastructural facilities include 30 ICT enabled class rooms, 01 seminar halls, 01 video conferencing hall, 18 well equipped laboratories, 03 computer labs, digital library, etc. The college library has 45989 books and 30 journals as of now. The Principal along with the staff with their vast experience and broad vision, support the dynamisms and ambitious plan of Shri Anurag Shukla, Chairman of governing body, to take the institute to great heights.



VISION AND MISSION

Institutional Vision

Our Institution's motive is "Shraddhavan Labhte Gyanam" and our institute is trying hard to achieve it. The motto of D.P. Vipra College forms the core philosophy of the institution. At the heart of the institution, lies its commitment to education and learning, its ingrained ideology towards individual growth, community building and national development through the spread of knowledge as a lighting beacon on the path evolving to certitude enlightenment.

The vision is the vis major of an institution, the driving force behind its actions and the axis on which its energies are focussed. Envisioned by its founder, to be an institution with a purpose of fostering meaningful education.

Mission

The mission statement of the College, signifying the existence and its road map to the achievement of its vision, read as:

"To achieve and sustain excellence in teaching and research, and enriching local and national communities through our research, the skills of alumni, and the publishing of academic and educational materials"

A detailed description of the mission statement reads as:

- To excel in innovative and quality teaching pedagogy and to provide a holistic learning experience to students.
- To identify, tap, nurture and hone talent of individuals of a diverse base enabling them to realize and maximize their potential, excel in their academic and non-academic pursuits and developing them to be leaders of tomorrow.
- To achieve and promote excellence in publications.
- To develop human resources, infuse quality of leadership and create a competitive pool of scholars.
- To foster outreach, community building and empowerment initiatives at national level.
- To maintain and promote quality, transparency, compliance and sustainability in governance and service delivery.
- To collaborate and work with leading national and international institutions and organizations.
- To ensure outstanding environment-friendly infrastructure and facilities to its users.
- To encourage active participation in sports for complete physical and mental health of students.



The installed capacity of each load is given as follows:

Connected Load Breakup	
Lighting Load	16.6
Fans, Coolers	31.7
AC Load	33
Computers, Printer & Photo Copier Load	23.1
Freeze, LED TV & Projector Load	6.3
Total	111

Table 1: Connected Load Break up

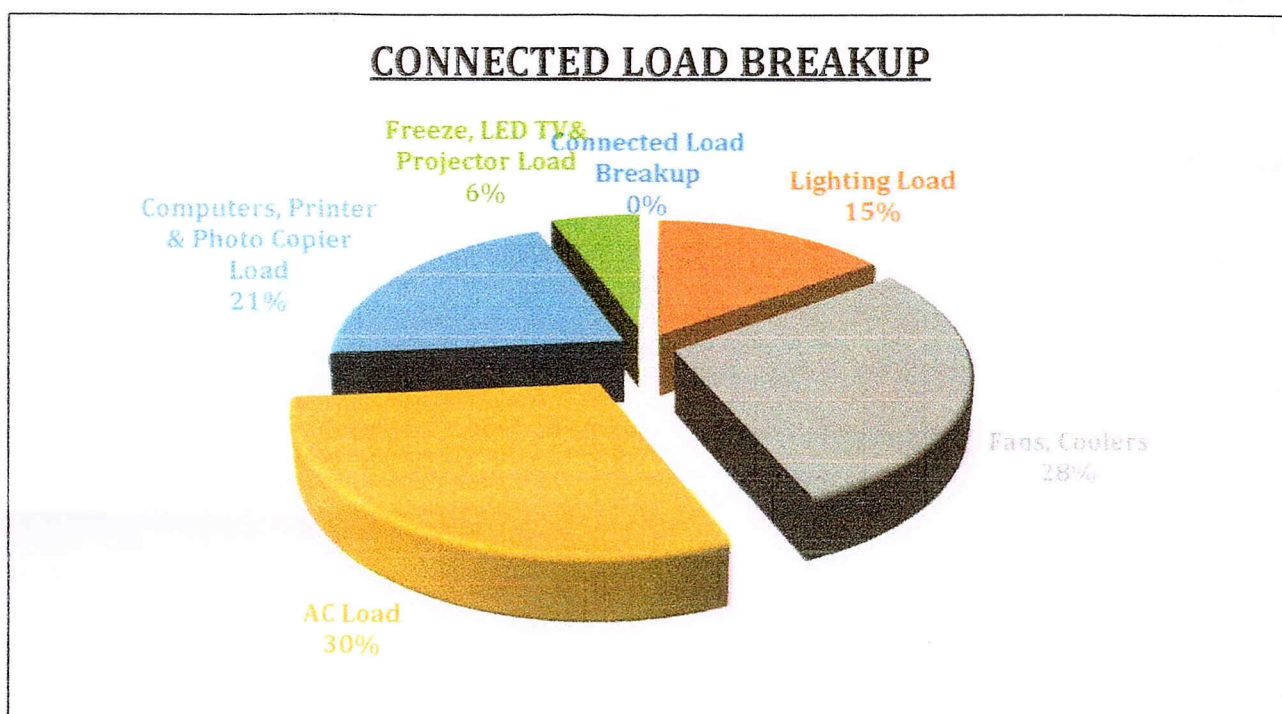


Figure 1: Connected Load Breakup



2.2 Methodology

The methodology adopted for energy audit study is given below:

- Kick off meeting
- Analysis of past performance data
- Measurements of required electrical parameters
- Conduct of efficiency and performance improvement trials (if required)
- Discussion of the findings and recommendations with Electrical Team.
- Detailed techno-economic analysis
- Report submission

2.3 Instruments used for study

The following Instruments were used during energy audit study:

S. No	Name of the Instrument	Make of the instrument	Details
1.	Portable power quality analyser	Hioki	Range: 5A-5000Amps Accuracy: Uncertainty in measurement is $\pm 0.77\%$ Voltage & $\pm 0.7\%$ (current), $\pm 0.31\%$ (watts)
2.	Thermal Imaging camera	Fluke TS10	Temperature Range: -10 to 350 °C (14 to 662 °F)
4.	RH meter	TESTO	Temperature range: 0°C to 50°C. with 100% RH
5.	Lux meter	Ten mars (NEDA 1604)	Range: 0-2000, 0-20000 & 0-50000 Lux (3 Ranges)
6.	Digital Pressure Meter	Metravi	Range : 0 to 2.131 PSI
7.	Anemometer	Lutron (AM 4201)	Range of Velocity: 0-30 m/s
8.	Ultrasonic flow meter	ADOPT Fluid Dynamics, pune	Range: 0-2500 m ³ /hr Resolution: 0.01m ³ /hr

Table 2: Instruments used for the study



Climatic condition

The average high temperature and low temperature profile of Bilaspur is given as follows:

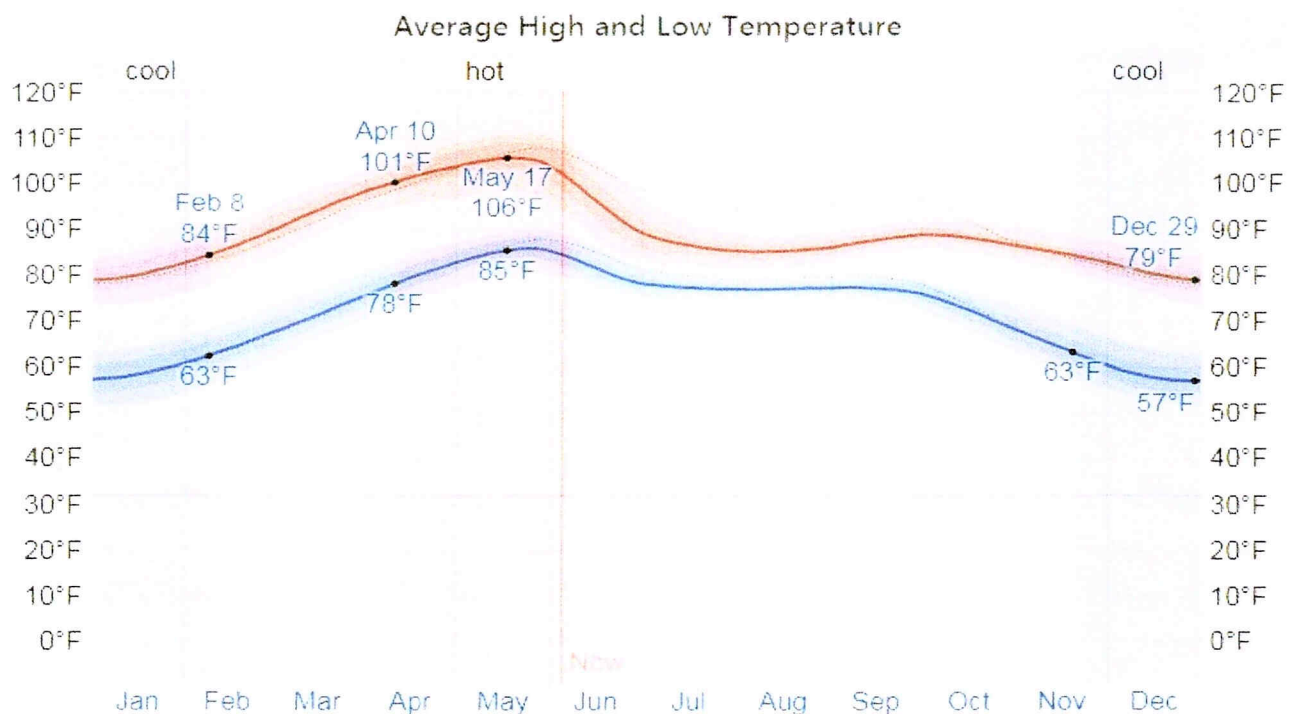


Figure 2: Climatic condition of Bilaspur

The hot season lasts for 1.9 months, from April 10 to June 8, with an average daily high temperature above 101°F (38°C). The hottest day of the year is May 17, with an average high of 106°F (41°C) and low of 85°F (29°C).

The cool season lasts for 2.6 months, from November 19 to February 8, with an average daily high temperature below 84°F (29°C). The coldest day of the year is December 29, with an average low of 57°F (14°C) and high of 79°F (26°C).



2.4 Present Energy Scenario at D. P. Vipra College

2.4.1 Source of Electricity

Electricity is sourced from Chhattisgarh State Power Distribution Company Limited (CSPDCL). The sanction Load of the facility is 60 KVA.

2.5.2 Electricity Board Bill Analysis

Electricity details including bills paid, demand recorded, and consumption is tabulated below. Electricity bill data of the facility from April 2019 to March 2020 is analysed as per billing month and summarised as follows:

Bill Month	KWH Consumption	KVAH Consumption	Contract Demand (KVA)	Maximum Demand (KVA)	Avg. P.F	Total Bill Amount (Rs.)	Charge Per Unit KWH (Rs.)	Charge Per Unit KVAH (Rs.)
Apr-19	3530	4755	60	30	0.74	49,820	14.1	10.5
May-19	3360	4575	60	28.8	0.73	46,210	13.8	10.1
Jun-19	3800	4865	60	34.2	0.78	49,010	12.9	10.1
Jul-19	4705	5995	60	42.6	0.78	59,620	12.7	9.9
Aug-19	6165	7815	60	48	0.79	84,870	13.8	10.9
Sep-19	7285	8850	60	50.4	0.82	94,200	12.9	10.6
Oct-19	4675	6255	60	44	0.75	40,040	8.6	6.4
Nov-19	4220	6225	60	39.6	0.68	60,630	14.4	9.7
Dec-19	3045	5210	60	30.2	0.58	51,300	16.8	9.8
Jan-20	2975	5060	60	18.2	0.59	50,560	17.0	10.0
Feb-20	3170	4900	60	20.8	0.65	50,240	15.8	10.3
Mar-20	2660	4145	60	23.4	0.64	41,620	15.6	10.0
Total	49590	68650				678120		
Average			60	34.563636	0.709		14.0	9.9

Table 3 Electricity Board bill analysis

Month wise energy consumption (kWh) and associated bills paid pattern from April 2019 to March 2020 of the facility is shown below



kWh and Bill paid Comparison Chart (2019-20)

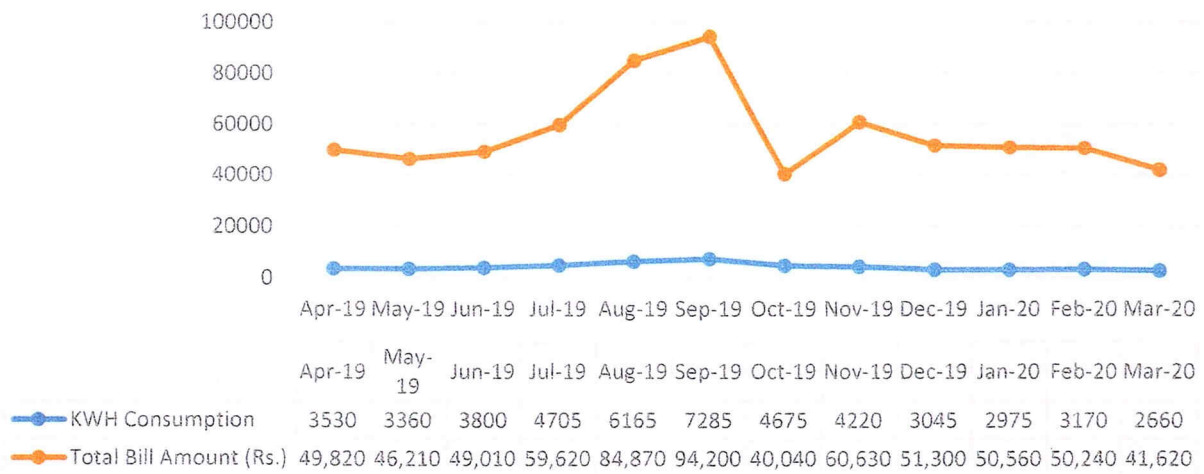


Figure 3: Electrical energy consumption and bill paid pattern (2019-20)

Energy consumption (kWh) was maximum during Sep 2019 and minimum during March 2020. The energy cost paid was maximum during Sep2019 and minimum during oct 2019.

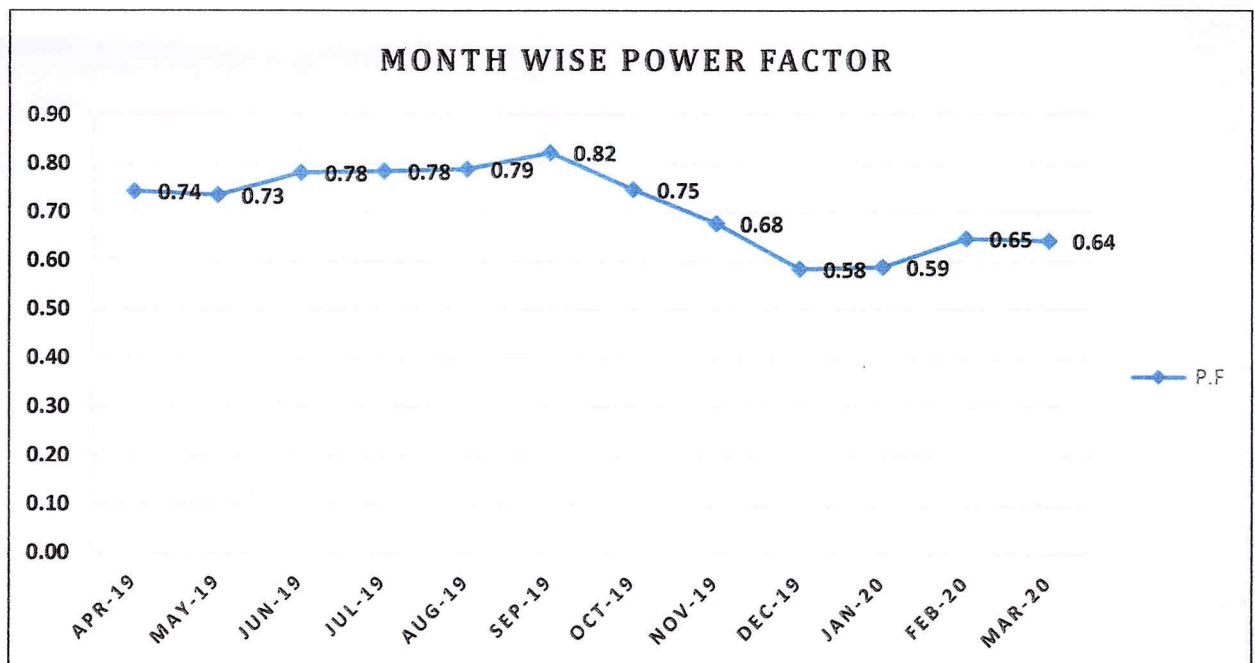


Figure 4: Month Wise Power Factor



Section3: Performance Assessment



3. Performance Assessment

D. P. Vipra College, Bilaspur has One Energy Meter. The facility has AC's, Fans, lighting and Computers as the major energy consuming utilities.

3.1 Load Analysis

The power logging monitoring has been done for main incomer feeder.

TRF Loading

Sr.no	Parameters	Unit	200KVA TRF	
			Design	Measurement.
1	Capacity	KVA	200	12
2	No-Load loss	kW	0.54	0.54
3	Load Loss (Primary and secondary side)	kW	2.9	0.01
4	Rated Resistance Value	Ω	0.00004	
5	Voltage (Sec. side)	V	433	427
6	Current (Sec. side)	Amps	266.6	16
7	Power	KW		9
8	Power Factor	--		0.75
9	Impedance	%	5	
10	Loading @ operating pf	%		5.82
11	Efficiency	%		94.07
12	TRF Loading	%		5.82
13	Current Tap Position			2

Main Incomer reading

Sr No.	Panel Name	Measured												
		Voltage (V)					Current(A)					Power		
		RY	YB	BR	Average	% imbalance	RY	YB	BR	Average	% Imbalance	Factor	kW	KVA
1	TRF Main Incomer	428	427	426	427.0	0.23	16.3	24.3	6.6	15.7	54.4	0.750	8.7	11.6

Voltage profile

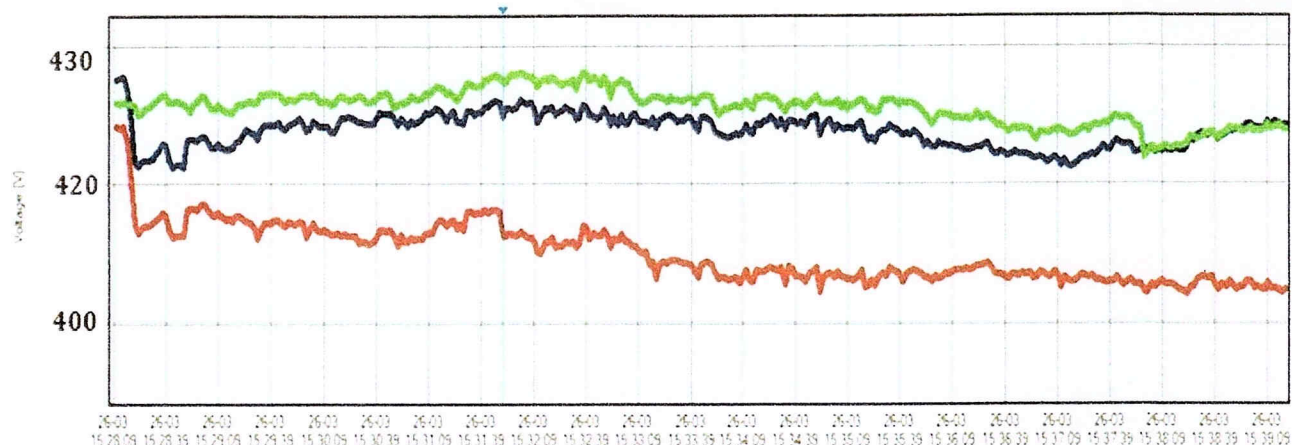
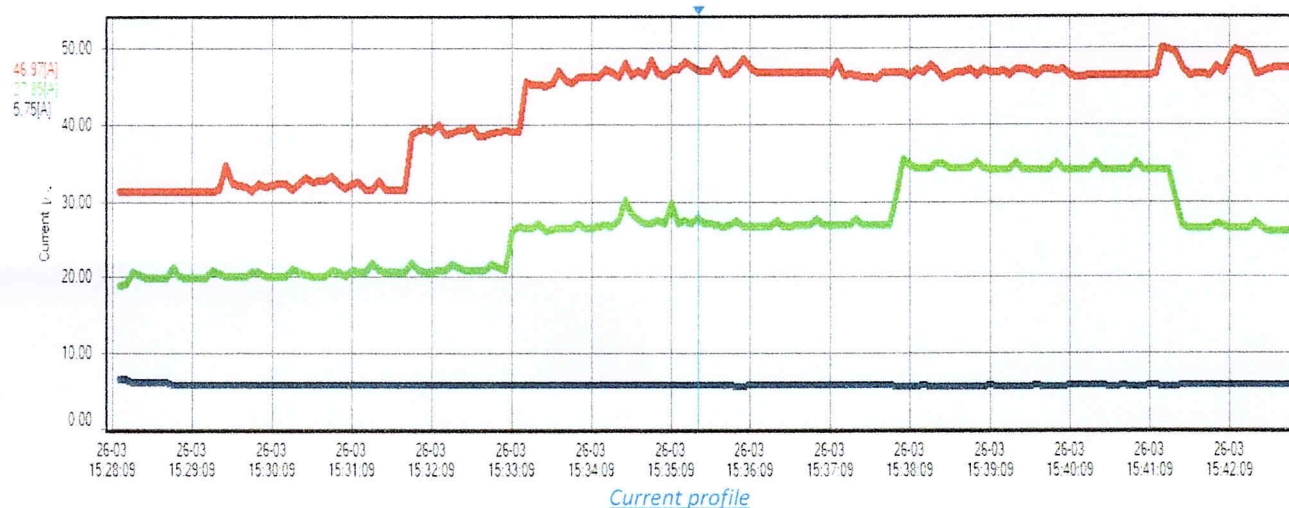


Figure 4: Voltage profile-



Current profile

Figure 5: Current profile



3.2 Illumination Survey

Sl. No.	Location / Room No.	Lux	Sl. No.	Location / Room No.	Lux
SATYAM BUILDING			Ground Floor		
	Ground Floor		1	Chemistry Department	67
1	Chairman Room	388	2	Chemistry Lab (U.G.)	120
2	Principle Room	497	3	Chemistry Lab (P.G.)	149
3	Account Department	221	4	Chemistry Department Staff Room	144
4	Established Room	301	5	Chemistry Lab Research Room	134
5	Salary Room	303	6	History Department	309
6	Prof. Kiran Dubey Room	363	7	Smart Class-01	77
7	Smart Class-3	171	8	Smart Class-02	87
8	Storage Room	80	9	Student Organisation room	246
9	University Branch	123	10	Clerk Room	444
10	Smart Class-4	241	11	Lab Department	86
11	ICT Room & Conference Hall	136	SUNDRAM BUILDING		
12	Public Admistrate Room	333		Ground Floor	
13	Ground Floor Gali	41	1	Sports Department	78
	1st Floor		2	English Department	302.5
1	Room No.101	170	3	Commerce Department	92.5
2	Room No.102	174	4	Sociology Department	126.5
3	Room No.103	168	5	Economics department	121.5
4	Room No.104	172	6	Political department	191
5	Room No.105	146	7	NCC Department	130
6	Room No.106	149	8	Hindi Department	117.5
7	Room No.107	145		1st Floor	
	2nd Floor		1	Room No.110&111	149.5
1	Botonny Lab-01	139	2	Room No.112&113	139
2	Zoology Lab	160	3	Room No.206	243.5
3	Electronics department	170	4	Room No.207	232.5
4	Managemental Departmental Room	187	PUSHPARAJ BUILDING		
5	Class Room-202	251		Ground Floor	
6	Class Room-203	166	1	NSS Department	220
7	Mathematics Department	148	2	Gym Department	208
	SHIVAM BUILDING		3	Godam	167
	2nd Floor		4	Room No.01	410
1	Computer Department office	241	5	Room No.02	350
2	Library-1	140	6	Room No.03	380
3	Computer Lab-01	179	7	Room No.04	254.5
4	Computer Lab-02	160	8	Room No.05	178
5	Computer Lab-03	108	9	Room No.06	230
6	Staff Room	152	10	Room No.07	212
7	Physics Lab-01	180	11	Room No.08	230
8	Physics Department Staff	163	AUDITORIUM BUILDING		
9	Physics Class Room	156	1	Conference Room	92.67
10	Physics Lab-02	166.5			
11	Girls Common Room	419.3			
	1st Floor				
1	Department of Microbiology	208			
2	Microbiology Lab-01	49			
3	Geography Department	125			
4	Microbiology Lab-02(U.G.)	111			
5	Room no-109	190			
6	Department of biotechnology	87			
7	Biotechnology Class room	121			
8	Biotechnology Lab	120			
9	Research Room	111			
10	1st floor Library	71			



3.3 Connected Load

SL No.	Types of Fitting	Capacity (watt)	Qty. (Nos.)	Total Watt (KW)
1	CFL Bulb(9W)	9	117	1.1
2	LED Bulb(12W)	12	42	0.5
3	LED Tube Light(20W)	20	80	1.6
4	T5 Tube Light(36W)	36	358	12.9
5	Smart Class (LED)	200	3	0.6
6	Wall Fan(60W)	60	12	0.7
7	Table Fan(60W)	60	5	0.3
8	Ceiling Fan(70W)	70	303	21.2
9	Exhaust Fan(150W)	150	30	4.5
10	Room Cooler(250W)	250	20	5.0
11	Air Conditioner (1.5 Tonne Split)	1500	8	12.0
12	Air Conditioner (2 Tonne Split)	2000	3	6.0
13	Air Conditioner (1.5 Tonne-Window)	2500	6	15.0
14	Computer(150W)	150	130	19.5
15	Photo copier M/c(1500W)	1500	2	3.0
16	Printer(50W)	50	12	0.6
17	Projector(300W)	300	15	4.5
18	LED TV (100W)	100	3	0.3
19	Freeze(300W)	300	5	1.5
	Total			111



Section 4: Energy Conservation Measures (ECM)



4. Energy Conservation Measures

ECM 1: Replacement of Existing Light to LED Lights in College Building.

Existing condition

Sr. No.	Location	Existing Fittings (36 Watt FTL & 9 Watt CFL)				Proposed Fittings to be Replaced with LED				
		Type of Fitting	Watt	Qty.	Total Watt	Watt	Qty.	Total Watt	Approx. Each Price in Rs.	Amount in Rs.
1	College Building	FTL	36	358	12888	20	358	7160	250	89500
2		CFL	9	117	1053	7	117	819	70	8190
	Total				13941			7979		97690

Recommendation

Replacement of remaining Existing Light to LED Lights

Savings Analysis

Energy saving potential

1	Existing Fitting energy consumption	Watt	13941
2	Proposed Fitting energy consumption	Watt	7979
3	After replacement energy saving	Watt	5962
4	Energy Saving in Percentage	%	42.77
5	Operating hour per day	hours/day	8
6	Operating days per years	days/Year	250
7	Energy Saving After Replacement	Watt Hour	47696
		kWh/year	11924
		Lakh kWh/year	0.119
8	Energy Cost	Rs./kWh	7.00
9	Saving in Terms of Amount	Lakh Rs. /year	0.835
10	Estimator Investment of LED Fitting	Lakh Rs.	0.977
11	Simple Payback Period	Year	1.17
		Month	14.04
		Say Month	14



ECM 2: Replacement of Existing Ceiling Fan to Energy Efficient Fan in College Building.

Existing condition

Sr.No.	Location	Existing Ceiling Fan Fittings (70 Watt)			Proposed Fan to be Replaced with Energy Efficient ceiling Fan (1200 mm) 30 Watt				
		Watt	Qty.	Total Watt	Watt	Qty.	Total Watt	Approx. Each Price in Rs.	Amount in Rs.
1	College Building	60	303	18180	30	303	9090	2500	757500
	Total			18180			9090		757500

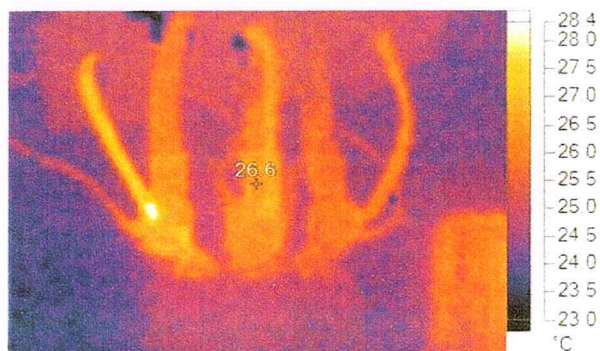
Recommendation

Replacement of existing Ceiling Fan to Energy Efficient fan in Old Building

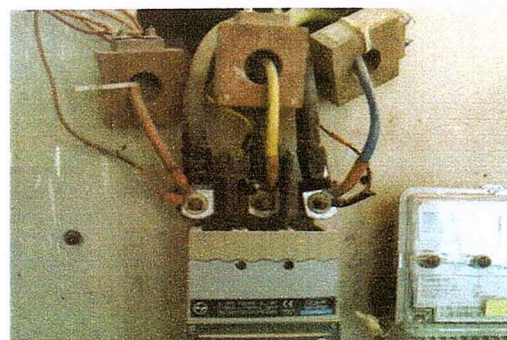
Savings Analysis

1	Existing Fitting energy consumption	Watt	18180
2	Proposed Fitting energy consumption	Watt	9090
3	After replacement energy saving	Watt	9090
4	Energy Saving in Percentage	%	50.00
5	Operating hour per day	hours/day	8
6	Operating days per years	days/Year	280
7	Energy Saving After Replacement	Watt Hour	72720
		kWh/year	20362
		Lakh kWh/year	0.204
8	Energy Cost	Rs./kWh	7.00
9	Saving in Terms of Amount	Lakh Rs. /year	1.425
10	Estimated Investment for Energy Efficient ceiling fan	Lakh Rs.	7.575
11	Simple Payback Period	Year	5.31
		Month	63.78
		Say Month	64

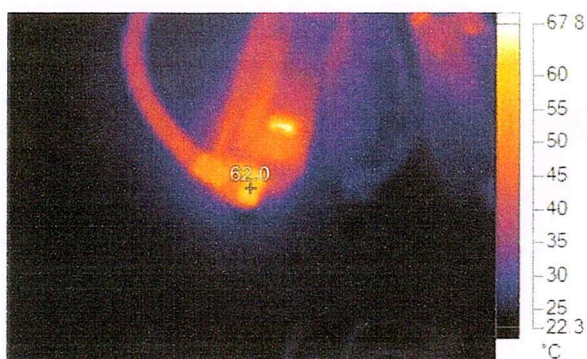
Thermal Images



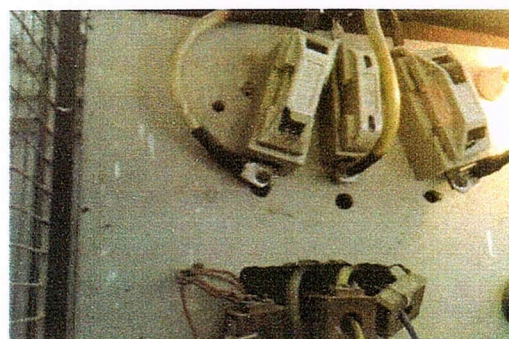
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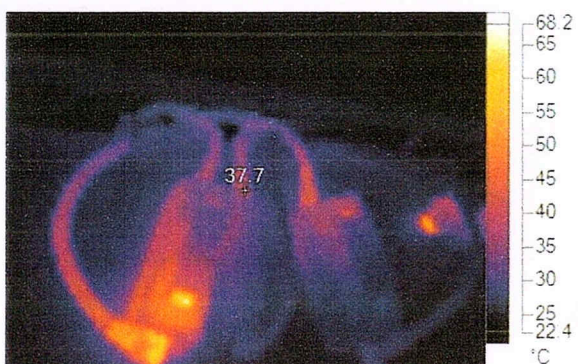
Visible Light Image



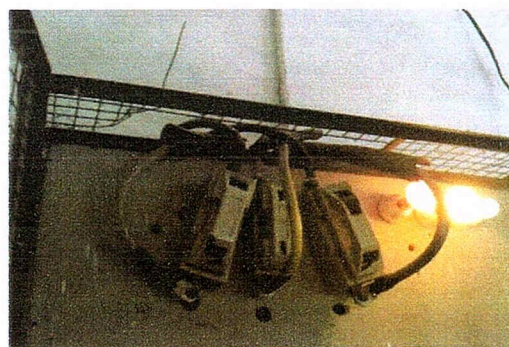
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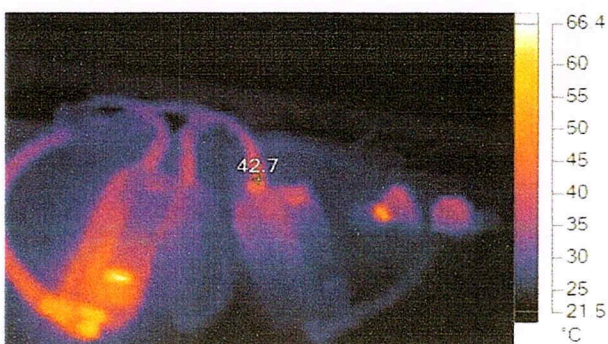
Visible Light Image



GEM00040.IS2



Visible Light Image



GEM00041.IS2



Visible Light Image



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 Energy 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.
- V. The Energy Audit has been carried out in accordance with the Bureau of Energy Efficiency (Manner and intervals of time for the conduct of Energy Audit) Regulation, 2010.

Signature:



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

**CERTIFICATE FROM THE
AUDITING AGENCY**

CERTIFICATE

This is to certify that **D. P. VIPRA COLLEGE BILASPUR** has successfully conducted Green Audit, Environment Audit & Energy Audit of the year 2020.

The above certificate is issued in accordance to the work order provided by the **D. P. VIPRA COLLEGE BILASPUR (CHHATTISGARH)**.

Place: Durg


Authorized Signatory

Greenserve Energy
Management Solutions
Durg (C.G.)

Seal



**CLEAN AND GREEN CAMPUS
RECOGNITION AWARDS**



Certificate of Participation

**NO FOUR
PLASTIC**

THIS CERTIFICATE IS PROUDLY PRESENTED TO

D. P. Vipra College, Bilaspur (C.A.)

for his/her selfless service to the Cleaning and Awareness campaign,
CLEANING CHAPI JALASHAY held on 27-02-2021 on the occasion of **WORLD NGO DAY**.

Your active participation and enthusiasm has been commendable.

We are eternally grateful for your contribution and urge you to
continually make a difference with your zest.

Dr. Ajay Srivastava

DR AJAY SRIVASTAV

A

DR ANKIT THAKRAL

P. Sonthalia

PRAKASH SONTALIA

Brandon

BRANDON DSOUZA

International Campaign for Environment and Biodiversity Conservation during the period of COVID-19 and after



On the occasion of World Environment Day (05 June), An initiative of



NATIONAL SERVICE SCHEME CELL

ATAL BIHARI VAJPAYEE VISHWAVIDAYALAYA, BILASPUR, CG, INDIA

In collaboration with

**NAVEEN GOVERNMENT COLLEGE, NAWAGARH, (DISTRICT- JANJGIR-CHAMPA)
CG, INDIA**

Certificate of Appreciation

This is to certify that **DP Vipra College, Bilaspur** has actively participated in 'International Campaign for Environment and Biodiversity Conservation during the period of COVID-19 and after', solemnly pledged for 'PROTECTION OF MOTHER NATURE' and performed excellent in Online Awareness Program organized by NSS Cell, Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur (A Public State University of Chhattisgarh State) in collaboration with Naveen Government College, Nawagarh, CG, India.

Date: 8-6-2020

ID:GBWYOA-CE000252

Prof. Ajay Kumar Patel
PO, NSS/External Expert

Prof. B.K. Patel
Principal/Convener

Dr. Manoj K. Sinha
Coordinator NSS/Organiser

Prof. G.D. Sharma
Vice-Chancellor and Patron

वृक्षारोपण

प्रमाणित किया जाता है कि डी.पी.विप्र महाविद्यालय (राष्ट्रीय सेवा योजना) दिनांक 28/07/2018 को ग्राम वेद परसदा में शास. प्रा. विद्यालय तथा गांव के अनेक सार्वजनिक स्थानों पर पौधारोपण की महती आवश्यकता को समझते हुए पौधरोपण करने एवं पौधों को सुरक्षित करने का आग्रह किया। इनका कार्य समाजसेवा के क्षेत्र में सराहनीय है।

सविता
समय
ग्राम पंचायत वेद परसदा
विकास खण्ड परसदा

सरपंच

ग्राम वेद परसदा

**REPORT FOR BEYOND CAMPUS
ENVIRONMENTAL ACTIVITY**



**D.P. VIPRA COLLEGE
BILASPUR**
ACCREDITED "A" GRADE BY NAAC

2020-21

D.P. Vipra College


Old High Court Road, Bilaspur

Chattisgarh, India 495001



NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)



1	Name of the Activity	Food For Animal and Birds	
2	The activity is : Workshop/Training/Programme/Rally	Programme	
3	Level : International/National/State/University/District/College	District	
4	Objective: To feed the animal and birds		
5	Date	08 March 2020	
6	Venue	Railway And Slum Area, Bilaspur (C.G.)	
7	Programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	02
		Students	10
			volunteers
		Others	02
9	<u>Description:</u> Food and water for the animals and birds was arranged by the National Service Scheme of D.P. Vipra College in the railway and Bilaspur Municipal Corporation area with the help of volunteers. This work was appreciated by the Principal Dr. Anju Shukla.		
10			


Programme Officer
National Service Scheme
D.P. Vipra College, Bilaspur (C.G.)


PRINCIPAL
D.P. Vipra College
Bilaspur (C.G.)



NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)



1	Name of the Activity	Gandagi Mukh Bharat Campaign	
2	The activity is : Seminar/Workshop/Training/Programme/Rally/Campaign	Campaign	
3	Level : International/National/State/University/District/College	College	
4	Objective: The aim of this campaign is to reaffirm commitment towards building a cleaner and healthier future of city by promoting "Gandagi mukh Bharat Abhiyan".		
5	Date	14 th to 17 th August 2020	
6	Venue	Govt. PHC Lingiyadih, Bilaspur (C.G.)	
7	The programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	4
		Students	27
		Volunteers	10
		Others	10
9	Description: Under the "Gandagi Mukh Bharat Abhiyan" a cleanliness campaign was conducted around the PHC. Chatidhih (Lingiyadih) by volunteers of National service scheme D.P. Vipra College and people were made aware to keep the places clean in their surrounding.		
10			

Programme Officer
National Service Scheme
D.P. Vipra College, Bilaspur (C.G.)

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D.P. Vipra College
Bilaspur (C.G.)



**NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)**



गंदगी मुक्त भारत अभियान का आयोजन

बिलासपुर. अटल बिहारी वाजपेयी विश्वविद्यालय से सम्बद्ध डीपी विप्र महाविद्यालय राष्ट्रीय सेवा योजना की इकाई द्वारा "गंदगी मुक्त भारत अभियान कार्यक्रम" प्राथमिक चिकित्सा केंद्र, लिंगियाडीह में चलाया गया। कार्यक्रम चिकित्सा अधिकारी डॉ. दीपक सोनी के सहयोग से सम्पन्न हुआ। इस कार्यक्रम में कार्यक्रम अधिकारी प्रो.रीना ताम्रकार, कार्यक्रम अधिकारी प्रो.यूपेश कुमार, नम्रता पांडेय, स्वयंसेवक आकाश सोनी, आयुषी तिवारी, नीलम टोन्डर आदि ने महत्वपूर्ण योगदान प्रदान किया।


Programme Officer
National Service Scheme
D.P. Vipra College, Bilaspur (C.G.)

PRINCIPAL
D.P. Vipra College
Bilaspur (C.G.)

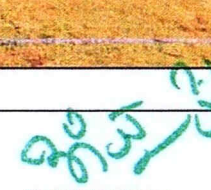


NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)



1	Name of the Activity	Plantation Campaign	
2	The activity is :	Seminar/Workshop/Training/Programme/Rally/Campaign	Campaign
3	Level : International/National/State/University/District/College		College
4	Objective:	To know the value of environment ,benefits of trees, beautification in and around the college.	
5	Date	14 October 2020	
6	Venue	Shri Ram Sport Complex Jairam	
7	The programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	04
		Students	20
		Others	06
9	Description: National Service Scheme D.P. Program Officer Prof. Reena Tamrakar and Prof. Yupesh Kumar under the leadership of Prof. Rupendra Sharma. Saplings of Mango, Neem, Litchi, Banyan, Peepal, Kadamba, Amla etc. were planted by organizing a massive plantation campaign at Shri Ram Cricket Stadium, Jairamnagar located 23 KM from Bilaspur city. The aim was to protect the environment by making the local residents aware of the protection of these plants.		
10			

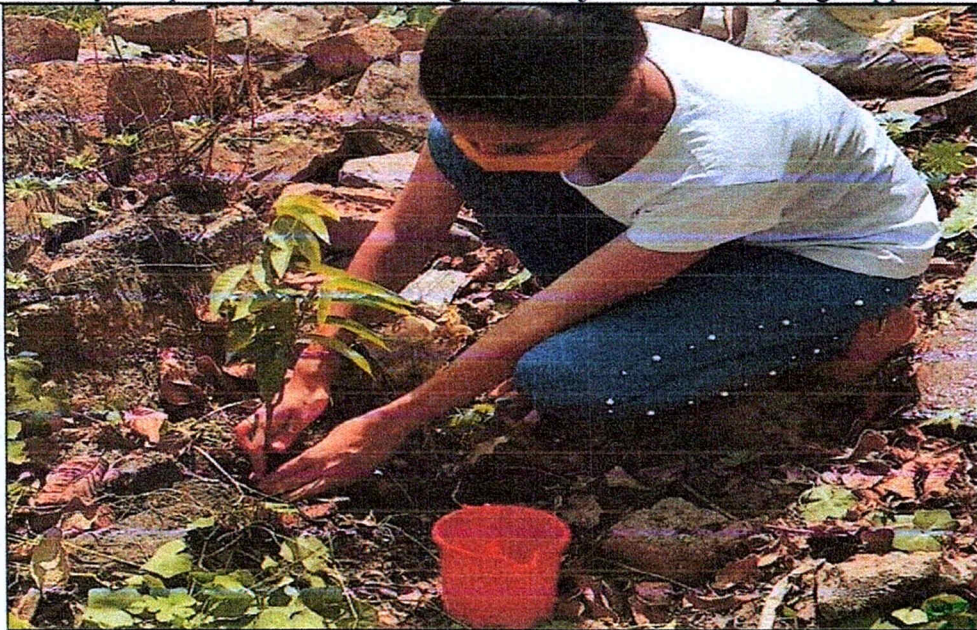

Programme Officer
National Service Scheme
D.P. Vipra College, Bilaspur (C.G.)


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D.P. Vipra College
Bilaspur (C.G.)




NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)



1.	Name of the Activity	World Environment Day	
2.	The activity is :	Seminar/Workshop/Training/Programme/Rally	Programme
3.	Level : International/National/State/University/District/College		College
4.	Objective:	To spread awareness about threat like pollution level and climate change environment and aware how to Save Nature and environment.	
5.	Date	05 June 2020	
6.	Venue	Local Residential Area	
7.	The programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8.	Number of Stakeholders participated	Teachers	47
		Students	322
			Volunteers and students
		Others	30
9.	Description:	Tree plantation programme was organized by National service scheme D. P. Vipra College on the occasion of world Environment Day. Volunteers of National service scheme participated public awareness campaign was carried out on which this was done by the principal of the college Dr. Anju Shukla campaign appreciated.	
10.			


Programme Officer
National Service Scheme
D.P. Vipra College, Bilaspur (C.G.)


PRINCIPAL
D.P. Vipra College
Bilaspur (C.G.)



**NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)**



विश्व वानिकी दिवस **इन्फार्मेशन ने भिट्टी और वनसंपदा की दी जानकारी**

पर्यावरण संरक्षण के लिए किया जागरूक



लेखक मीरजा देवर्ष

मिर्जापुर। राष्ट्रीय सेवा योजना डीपी विप्रा महाविद्यालय की इकाइयों ने रविवार को विश्व वानिकी दिवस मनाया। इस

बीच लोगों को देश के विभिन्न प्रांतों की मिट्टी व वनसंपदा की जानकारी दी गई। साथ ही हर पर्यावरण संरक्षण के लिए जागरूक भी किया गया। कार्यक्रम में अधिकारी प्रो.रोना

खेती को नकार रहे लोग

महाविद्यालय की इकाइयों डी.पी. विप्रा महाविद्यालय की इकाइयों ने रविवार को विश्व वानिकी दिवस मनाया। इस

विश्व वानिकी दिवस पर एक नजर

विश्व वानिकी दिवस सन् 1971 में मनाया गया था। संयुक्त राष्ट्र संघ ने 28 नवंबर 2012 में एक संकल्प पत्र पारित किया, इसके जरिए 21 नवंबर को प्रो.रोना

विकास व प्रो.यूपेस कुमार के मार्गदर्शन में पर्यावरण को संरक्षित रखने के साथ ही मानव की आवश्यकताओं व रुचि को भी ध्यान में रखते हुए प्रत्येक दिन की विनियमों में प्रयोग की जाने वाली सक्कियों के बीजों को सजाकर इनको अंकुरित कर पौधों के रूप में तैयार किया जा

रहा है। इस अभियान के अंतर्गत करेला, बेगन, टमाटर, शिमला मिर्च, मिर्ची आदि के पौधे तैयार किए जा रहे हैं। स्थानीय स्तर पर घर-घर तैयार किए जा रहे इन पौधों को बाड़ियों व अर्द्धकृषि मृदा वाली खुली जमीन में रोप कर फल-उत्पाद के लिए सक्कियों को वितरित किया जाएगा।


Programme Officer
National Service Scheme
D.P. Vipra College, Bilaspur (C.G.)

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Bilaspur (C.G.)

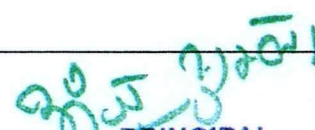


NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)



1	Name of the Activity	Plantation & Plant Distribution	
2	The activity is : Seminar/Workshop/Training/Programme/Rally	Programme	
3	Level : International/National/State/University/District/College	College	
4	Objective: How to plant tree and save nature and reduce CO ₂ from our environment.		
5	Day & Date	15-June 2020	
6	Venue	Local Residential Area	
7	The programme is organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	09
		Students	287
			Volunteers and students
		Others (please specify)	28
9	Description: Tree plantation and plant distribution programme was organized by National service scheme D. P. Vipra college volunteers. Tree plantation was done by volunteers around their house and public places and sapling was distributed.		
10			

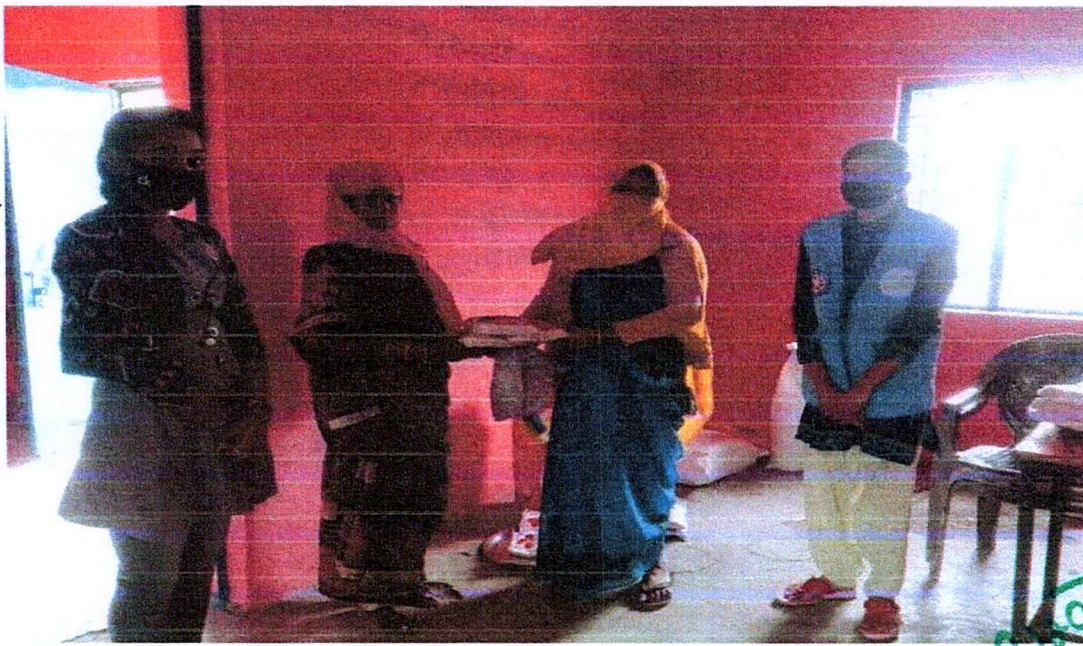

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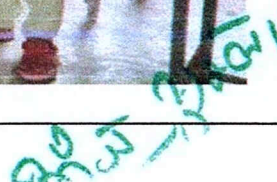


NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)



1	Name of the Activity	Social Work on Hareli Festival	
2	The activity is : Seminar/Workshop/Training/Programme/Rally	Programme	
3	Level : International/National/State/University/District/College	College	
4	Objective: To help needy people & Tree Plantation and Save the earth by 'Go Green' Campaign.		
5	Date	21 July 2020	
6	Venue	Local Residential Area	
7	The programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	04
		Students	32
			Volunteers and students
		Others	13
9	Description: On the occasion of Hareli festival, free food items are distributed to the poor people of the SECR Railway zone by the volunteers of National Service scheme D.P. Vipra College.		
10			


Programme Officer
National Service Scheme
D.P. Vipra College, Bilaspur (C.G.)


PRINCIPAL
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Bilaspur (C.G.)



NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)



सहायता कर मनाया हरेली पर्व

बिलासपुर @ पत्रिका. अटल बिहारी विश्वविद्यालय के डीपी विप्र महाविद्यालय की रासेयो स्वयंसेविका नम्रता पांडेय ने कार्यक्रम अधिकारी प्रो. रीना ताम्रकार, प्रो. यूपेश कुमार के मार्गदर्शन में अपने ग्राम हरदीकला में हरेली पर्व के उपलक्ष्य में मजदूरों के बच्चों को स्वनिर्मित वस्त्रों का वितरण किया। साथ ही उनको साबुन भी प्रदान कर हाथ धोने, व कपड़ों को नियमित धोकर पहनने आदि सम्बन्धी स्वच्छता जागरूकता का प्रचार किया।

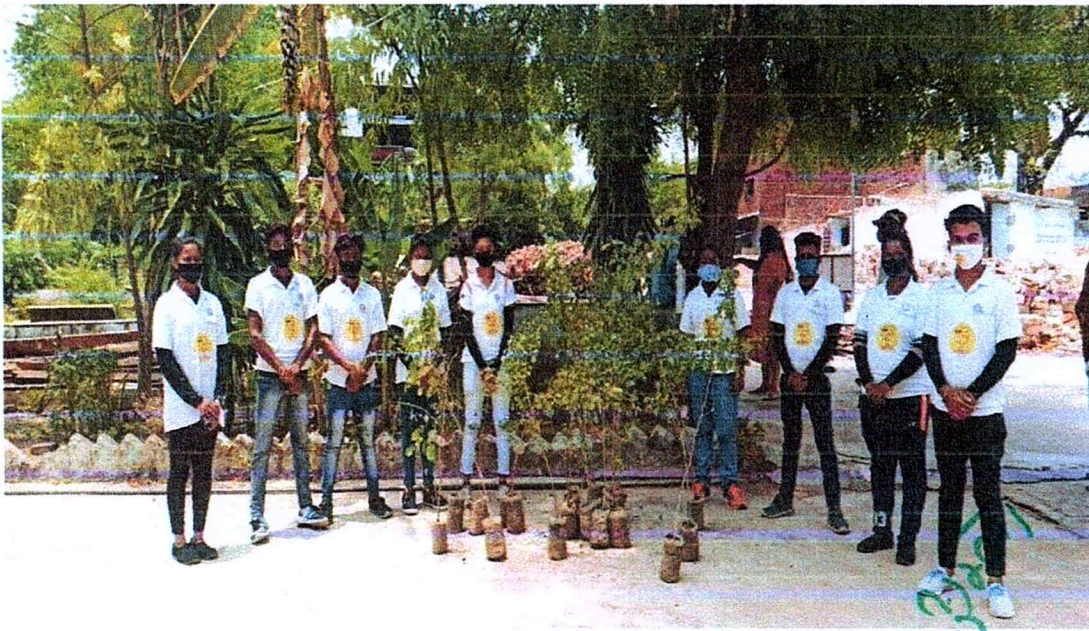

Programme Officer
National Service Scheme
D.P. Vipra College, Bilaspur (C.G.)

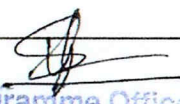

PRINCIPAL
D.P. Vipra College
Bilaspur (C.G.)




NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)



1	Name of the Activity	Worlds Nature Conservation Day	
2	The activity is : Seminar/Workshop/Training/Programme/Rally	Programme	
3	Level : International/National/State/University/District/College	College	
4	Objective: To create awareness about the need to preserve the environment and natural resources in order to keep the world healthy.		
5	Date	28-July 2020	
6	Venue	Local Residential Area	
7	The programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	8
		Students	57
		Volunteers and students	
		Others	27
9	Description: On the occasion of World Nature Conservation Day a huge campaign was organized by the volunteers of national service scheme D. P. Vipra College Bilaspur Chhattisgarh to aware people about conservation of environment and nature. This occasion is an attempt to recognize that a healthy and well-functioning environment is critical for sustaining a stable & productive human society.		
10			



Programme Officer
National Service Scheme
D.P. Vipra College, Bilaspur (C.G.)


PRINCIPAL
D.P. Vipra College
Bilaspur (C.G.)



NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)



1	Name of the Activity	Food Distribution	
2	The activity is : Seminar/Workshop/Training/Programme/Rally/Campaign	Campaign	
3	Level : International/National/State/University/District/College	College	
4	Objective: To avoid single use of plastics, save the nature, to aware about cloth bags.		
5	Date	05 November 2020	
6	Venue	Bhakurra Navapara	
7	The programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	07
		Students	76
		Others	03
9	Description: Free ration and food were distributed by NSS Department of D. P. Vipra college to poor and needy families during the global pandemic COVID-19.		
10			


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क्वारेन्टाइन सेंटर्स में श्रमिकों को किया भोजन वितरण

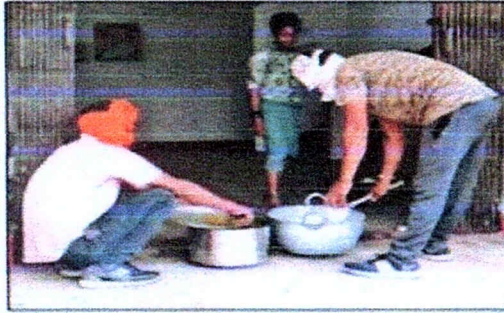
लोकस्वर मीडिया नेटवर्क

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बिलासपुर। कोरोना अनलॉक के पश्चात ऐसे सभी लोग जो अपने घरों से दूर थे, वो अपने घरों की ओर लौट रहे हैं और सतर्कता को ध्यान में रखते हुए शासन द्वारा प्रत्येक गांव एवं शहर में विभिन्न कोरोना क्वारेन्टाइन सेंटर बनाये गए हैं जहां पर 14 दिन तक रहकर संक्रमण न होने की स्थिति में लोग अपने घर जा रहे हैं। इन सेंटरों में उपयोगी व्यवस्थाओं का कार्यभार भी शासन पर है। साथ ही अनेक संस्थाएं भी

स्वेच्छापूर्वक समाज सेवा के रूप में आगे बढ़कर अपना योगदान दे रही हैं। अटल बिहारी वाजपेयी विश्वविद्यालय से संबंधित डॉ. पी.विप्र महाविद्यालय, राष्ट्रीय सेवा योजना इकाई डॉ. एम. एस. तम्बोली, कार्यक्रम अधिकारी प्रो. रीना ताम्रकार एवं कार्यक्रम अधिकारी प्रो. यू.पेश कुमार के मार्गदर्शन में कार्य कर रही हैं। स्वयंसेवक रघुनंदन धुरी

द्वारा ग्राम फरहदा में सरपंच रघु पटेल के सहयोग से भोजन का वितरण किया गया। स्वयं सेवक रघुनंदन ने क्वारेन्टाइन में निवासरत लोगों को समय-समय पर सैनिटाइजर से हाथ धोने, खांसी या छींक आने पर रुमाल या कपड़े से मुंह ढंकने, फेस मास्क का नियमित उपयोग करने और



सामाजिक दूरी का पालन करने संबंधी बातें साथ ही कोरोना के किसी भी लक्षण के पता चलते ही तत्काल चिकित्सकीय परामर्श लेने की बातें बता कर जन जागरूकता का प्रसार किया।

इसके साथ ही सरपंच एवं उपसरपंच की सहायता से सेंटर में हैण्डपम्प लगाया गया ताकि उनकी जल संबंधी समस्याएं सुलझ सकें। इस दौरान डॉ. मनोज सिन्हा, डॉ. संजय तिवारी, अनुराग शुक्ला, डॉ. अंजू शुक्ला, डॉ. विमल पटेल, डॉ. मनीष तिवारी, डॉ. विवेक अम्बलकर, अविनाश सेठी, प्रो. विश्वास विक्रम आदि ने सराहना की है।


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NATIONAL SERVICE SCHEME
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1	Name of the Activity	Paper Packet Distribution	
2	The activity is : Seminar/Workshop/Training/Programme/Rally	Campaign	
3	Level : International/National/State/University/District/College	College	
4	Objective: To aware about not to use single piece of plastic. We should not use plastic bags to avoid the wastage of money.		
5	Date	07 November 2020	
6	Venue	Bilaspur Various Market Area.	
7	The programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	30
		Students	190
		Others	21
9	Description: NSS Unit of D. P.Vipra College makes effort in the direction of environmental protection by making paper packets by volunteers, with an appeal to minimize the use of plastic, this packet was given to vegetable and fruit vendors free of cost. The volunteers give the message to say no to plastic bags as they are non-biodegradable and are harmful for our environment.		
10			

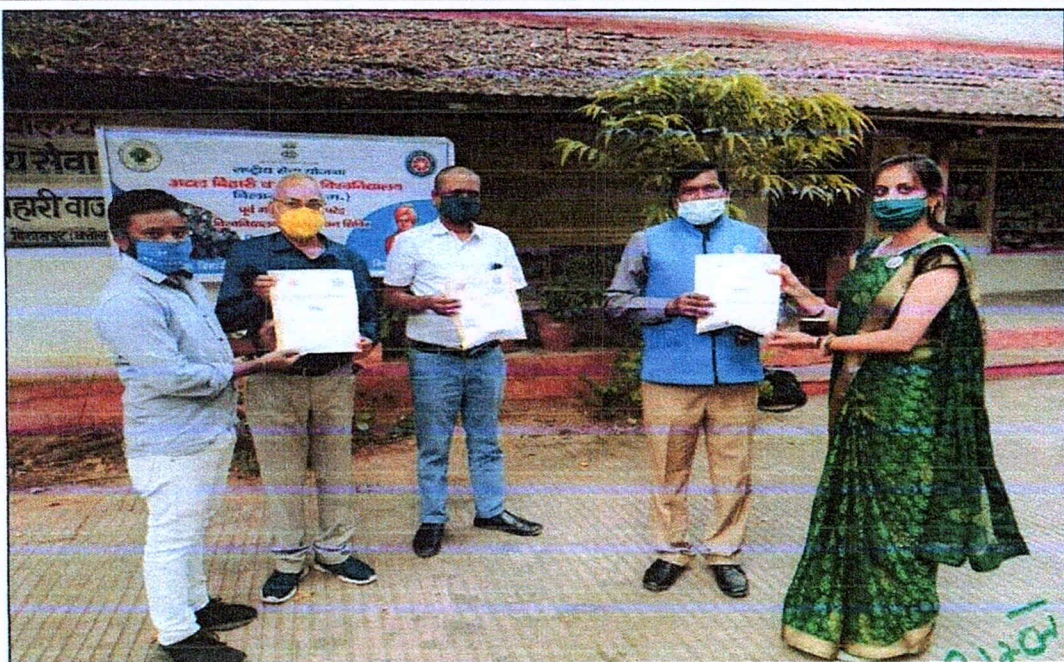

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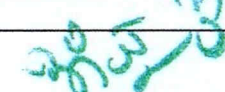


**NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)**



1	Name of the Activity	Deepdan Campaign	
2	The activity is : Seminar/Workshop/Training/Programme/Rally/Campaign	Campaign	
3	Level : International/National/State/University/District/College	College	
4	Objective: <p align="center">The aim of this campaign is to celebrate Diwali in an eco-friendly way and respect nature. Instead of bursting crackers, we can light diyas.</p>		
5	Date	10 to 12 November 2020	
6	Venue	Railway & Bus stand & Slum area.	
7	The programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	04
		Students	112
		Volunteers	
		Others	20
9	Description: In order to make ecofriendly Diwali, the handmade "Diyas" are prepared by NSS unit of D.P. Vipra College, Bilaspur and distribute it among the poor and needy people. A diya serves the purpose of purifying the environment by getting rid of the negativity and creating positive vibes.		
10			



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NATIONAL SERVICE SCHEME
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1	Name of the Activity	Cleaning Week	
2	The activity is : Seminar/Workshop/Training/Programme/Rally/Campaign	Campaign	
3	Level : International/National/State/University/District/College	College	
4	Objective: The aim of this campaign to protect and care for the environment by engaging the community in leading an environmentally conscious lifestyle.		
5	Day & Date	19 November 2020	
6	Venue	Shilpahri Bilaspur	
7	The programme is organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	2
		Students	159
		Others (please specify)	Volunteers 4
9	Description: National Service Scheme of D.P. Vipra college motivated the people around for cleanliness by running cleanliness campaign in various areas under the Swachhta Pakhwada week. The volunteers of NSS, D.P. Vipra College also gives the message to clean nature from plastic waste, for inhabitants. To make the people aware of the waste problem and to stimulate them to take action to keep it clean.		
10			



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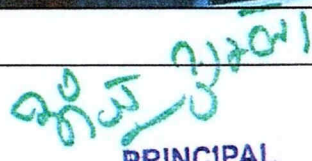


NATIONAL SERVICE SCHEME
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1	Name of the Activity	P.M. Ujjwala Yojna (PMUY)	
2	The activity is : Seminar/Workshop/Training/Programme/Rally/Campaign	Campaign	
3	Level : International/National/State/University/District/College	College	
4	Objective: To make aware about PMUY scheme and to provide clean cooking fuel solution to poor households especially in rural areas.		
5	Date	22 November 2020	
6	Venue	Shilpahri Bilaspur	
7	The programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	04
		Students	47
		Volunteers	
		Others	04
9	Description: In order to keep the environment pollution-free and to conserve fuel, awareness campaign was launched by NSS Department of D.P. Vipra College regarding the availability of LPG gas and stove to women and its safe use under the Pradhan Mantri Ujjwala Yojana.		
10			



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NATIONAL SERVICE SCHEME
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1	Name of the Activity	Water Conservation Campaign	
2	The activity is : Seminar/Workshop/Training/Programme/Rally/Campaign	Campaign	
3	Level : International/National/State/University/District/College	College	
4	Objective: To aware about natural resource. Save water and save its resources.		
5	Date	30 November 2020	
6	Venue	Jonki Village Bilaspur	
7	The programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	04
		Students	47
		Others	Volunteers 07
9	Description: Villagers were motivated for water conservation by running a cleanliness campaign around the pond in village Jonki under the Water Conservation and Water Sanitation Campaign by National Service Scheme D.P. Vipra College.		
10			



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**NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)**



1	Name of the Activity	Birds Fest Kopra	
2	The activity is : Seminar/Workshop/Training/Programme/Rally	Programme	
3	Level : International/National/State/University/District/College	District	
4	Objective: To provide more information about migrating Birds and to save the nature and Birds.		
5	Date	20-21 February 2021	
6	Venue	Kopra Dam Bilaspur	
7	Programme organized by	Forest Department (C.G.)	
8	Number of Stakeholders participated	Teachers	08
		Students	57
		Others	04
9	Description: The Kopra Bird Festival was organized by the Forest and Climate Change Department in which the National Service Scheme of D.P.Vipra College actively participated and cooperated in making the bird festival a success.		
10			

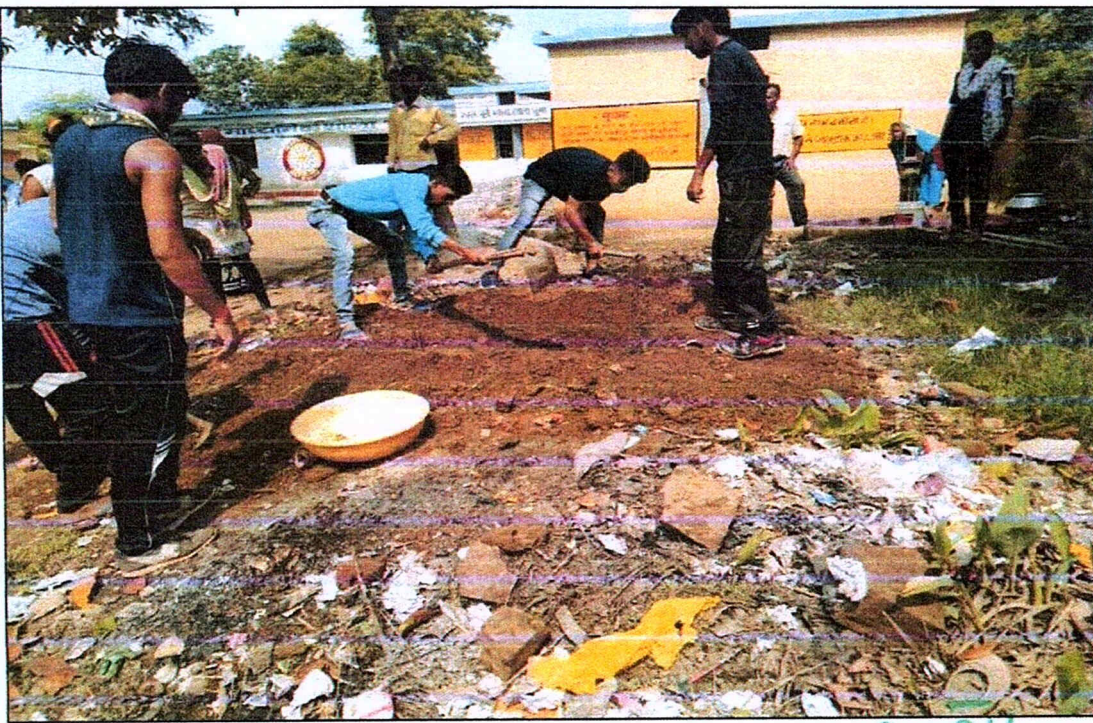

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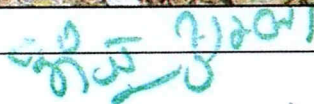


NATIONAL SERVICE SCHEME
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1	Name of the Activity	Platform Construction for Tree	
2	The activity is : Seminar/Workshop/Training/Programme/Rally	Programme	
3	Level : International/National/State/University/District/College	College	
4	Objective: To protect the tree from soil erosion.		
5	Date	05 March 2021	
6	Venue	Shankar Nagar Bilaspur	
7	Programme organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	04
		Students	55
		Others	05
9	Description: Labour work was done by the National Service Scheme of D.P. Vipra College. Under this, the damaged platforms of two old trees located in Shankar nagar Bilaspur were rebuilt.		
10			



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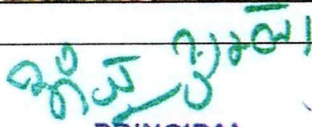


**NATIONAL SERVICE SCHEME
D. P. VIPRA COLLEGE, BILASPUR (C.G.)**



1	Name of the Activity	International Water Day	
2	The activity is : Seminar/Workshop/Training/Programme/Rally/ Campaign	Campaign	
3	Level : International/National/State/University/District/College	National	
4	Objective: To provide fresh drinking water to everyone and to highlight the importance of saving water		
5	Date	22 March 2021	
6	Venue	Short Video on Youtube	
7	Programme organized by	D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	02
		Students	20
		Others	04
9	Description: Explaining the importance of water on the occasion of World Water Day, a cleanliness campaign was conducted in the reservoirs by the National Service Scheme of D.P.Vipra College. Along with this, the public was made aware about water conservation.		
10			

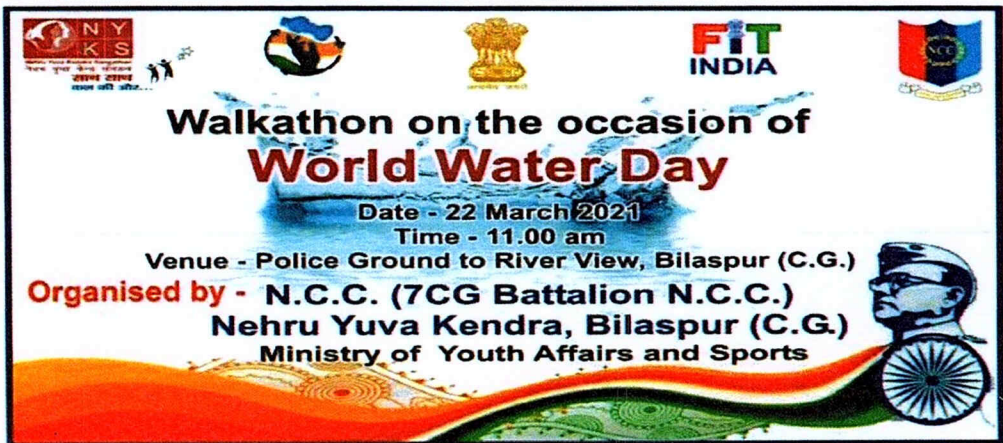

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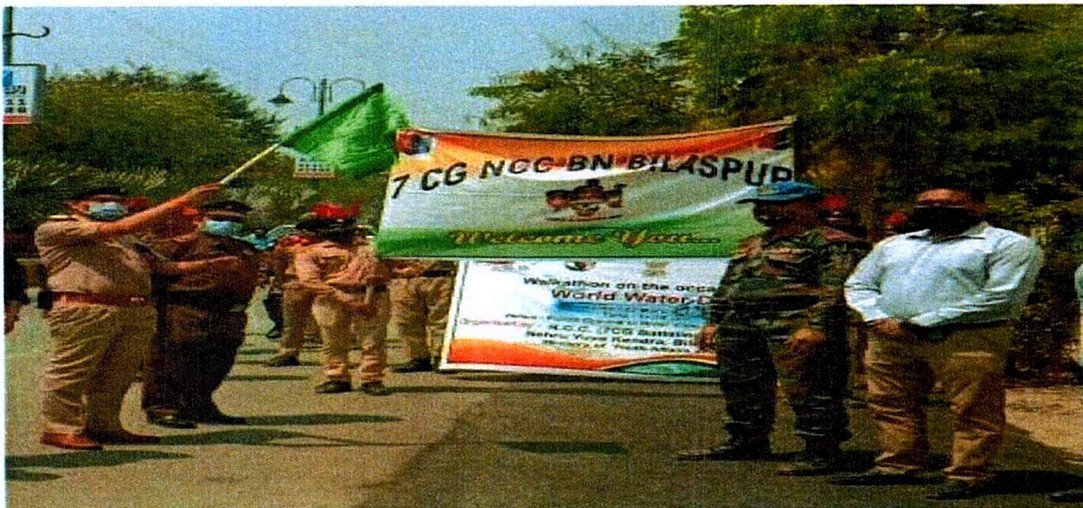

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NATIONAL CADET CORPS
D. P. VIPRA COLLEGE, BILASPUR (C.G.)



1	Name of the Activity	World Water Day	
2	The activity is : Seminar/Workshop/Training/Programme/Rally	Rally	
3	Level : International/National/State/University/District/College	Battalion level	
4	Objective: To aware the generation for environmental conservation through conservation of water for life and future by celebrating World Water Day.		
5	Day & Date	22 nd March 2021 , Monday	
6	Venue	Police Ground to River View , Bilaspur	
7	The programme is organized by	7 CG BN NCC & NYK, Bilaspur	
8	Number of Stakeholders participated	Teachers	1
		Students	89 Cadets
		Others (please specify)	More than 200 Cadets and other guests.
9	Outcome: All the Cadets done the Walkathon from Police Ground to River View , about Three Kilometers on the Occasion of World Water Day.Rally was flaged off by Add. S.P. City Mr. Umesh Kashyap. Massive message was given to the people about importance and conservation of water		
10			




Lt Ashish Sharma
 ANC, 7 C.G. Bn. N.C.C.
 D.P. Vipra College, Bilaspur


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**D.P. VIPRA COLLEGE
BILASPUR**
ACCREDITED "A" GRADE BY NAAC

2019-20

D.P. Vipra College

Old High Court Road, Bilaspur

Chattisgarh, India 495001



NATIONAL SERVICE SCHEME
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1	Name of the Activity	Arpa Bachao Abhiyan	
2	The activity is : Seminar/Workshop/Training/Programme/Rally/Campaign	Campaign	
3	Level : International/National/State/University/District/College	University	
4	Objective: To clean the river Arpa save the natural resources.		
5	Day & Date	08 December 2018	
6	Venue	Arpa River Bilaspur	
7	The programme is organized by	N.S.S. Atal Bihari Vajpayee University	
8	Number of Stakeholders participated	Teachers	04
		Students	25 volunteers
		Others (please specify)	03
9	Description: A special campaign was organized by NSS Department of D.P. vipra college in collaboration with Atal Bihari Vajpayee University to clean Arpa River. In this campaign programme officers and NSS volunteers were present.		
10	<p align="center">Programme Officer National Service Scheme D.P. Vipra College, Bilaspur (C.G.)</p>		

Principal
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NATIONAL CADET CORPS
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1	Name of the Activity	Arpa River SwachhtaAbhiyaan	
2	The activity is : Seminar/Workshop/Training/Programme/Rally	Programme	
3	Level : International/National/State/University/District/College	Battalion level	
4	Objective: To spread awareness about the growing levels of pollution in the Arpa River which flows through the city of Bilaspur and to increase general levels of awareness on pollution and cleanliness of rivers.		
5	Day & Date	11th June to 13th June, 2019	
6	Venue	Arpa River View Point, Bilaspur	
7	The programme is organized by	7 CG BN NCC	
8	Number of Stakeholders participated	Teachers	01
		Students	59 Cadets
		Others (please specify)	150 Cadets of other Institutions and 12 Army instructors
9	Outcome: The NCC cadets conducted cleanliness activities and a cleanliness drive on the river view point of Bilaspur from 6 AM to 8 AM and other organisations like NGOs, schools and colleges and religious organisations also came together to contribute.		
10			




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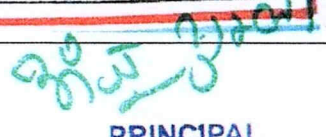


NATIONAL SERVICE SCHEME
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1	Name of the Activity	Plantation Drive	
2	The activity is : Seminar/Workshop/Training/Programme/Rally	Plantation	
3	Level : International/National/State/University/District/College	College	
4	Objective: To promote plantation of endangered species of plants.		
5	Day & Date	16 Sep. 2019	
6	Venue	Pachrighat, Bilapur (C.G.)	
7	The programme is organized by	N.S.S. D.P. Vipra College, Bilaspur (C.G.)	
8	Number of Stakeholders participated	Teachers	03
		Students	15
		Others (please specify)	volunteers and students
			03
9	Description: During the plantation programme various endangered medicinal plants were planted, which contributed to the conservation of endangered plants of medicinal importance programme was headed by NSS officers and efforts contributed by volunteers		
10	<div><p>डीपी विप्रा कॉलेज: डीपी विप्रा महाविद्यालय राष्ट्रीय सेवा योजना ने कॉलेज परिसर में पौधरोपण कार्यक्रम का आयोजन किया। एनएसएस के स्वयंसेवकों ने पौधे लगाए और सुरक्षा करने का संकल्प लिया। इस अवसर पर राष्ट्रीय सेवा योजना कार्यक्रम अधिकारी प्रो. रीना ताम्रकार, प्रो. यूसेश कुमार, स्वयंसेवक धनेश राजक, शारदा श्रीवास्तव, रमन दिनकर, उमेश चंद्रा, साकेत चंद्रा, अक्षित चंद्रा, रीना यादव, पूजा राजक, अंजलि, अनोश आदि मौजूद रहे।</p><p>और फोटो देखें दैनिक भास्कर पृष्ठ एप और दैनिक भास्कर डॉट कॉम पर</p><p>वॉट्सएप नंबर 8827720013 पर आप पौधरोपण से जुड़ी फोटो रीक कर सकते हैं</p></div>		


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