

ENVIRONMENT AUDIT REPORT



CHOTANAGPUR LAW COLLEGE, RANCHI



ABHINAV GRAM FOUNDATION – ECO SERVICES

265-C, Road No. -1, Ashoknagar, Ranchi – 834002

E-mail: abhinavgramjhar@gmail.com, Mob: 6200132344

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1. ACKNOWLEDGEMENT

Abhinav Gram Foundation – Eco Services Environment audit team is thankful to the management of Chotanagpur Law College, Ranchi for assigning this important work of Environment / Green Audit to us. We appreciate the cooperation and courtesy extended to our team for completion of this study.

Our special thanks are due to :

1. Principal of the college – Prof. (Dr.) Pankaj Kumar Chaturvedi
2. IQAC Coordinator – Mrs. Sakshi Pathak (Assistant Professor)
3. IQAC Member and Environment Expert- Dr. G.A. Bilung (Assistant Professor)
4. IQAC Member – Dr. Nandita Adhikari (Assistant Professor)
5. IQAC Member – Mrs. Lalisa Mohini (Assistant Professor)
6. IQAC Member – Mr. V.N.Choudhary (Administrative & Technical)
7. Supporting staffs of college.

For giving us necessary inputs to carry out this vital exercise of Green Audit/ Environment Audit. We are also thankful to others staffs/ members who actively cooperated with providing data and helping in field work.



2. DISCLAIMER

- Abhinav Gram Foundation- Eco Services Green Audit/ Environment Audit team has prepared this report for Chotanagpur Law College based on the input data provided by competent authority of the college complimented with the best judgment capacity of the expert team.
- It is further to inform that the conclusion are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by audit team in this report or for any direct or consequential loss arising from any use of information, statements as forecasts in the report.
- If CNLC wishes to distribute copies of this report external to your organization, then all pages must be included.
- AGF Eco-Services, its staff and agents shall keep confidential information relating to your organization and shall not disclose any such information to any third party, except that in public domain or require by law or relevant accreditation bodies. AGF Eco Services staff agents and accreditation bodies have signed individual confidentially undertaking and will only receive confidential information on a "Need to know" basis.

Reported by: Ram Pratap Singh
Lead Auditor.

3. CONTEXT

- We are committed as a component of Corporate Social Responsibility of the Higher Educational Institutions to ascertain that they contribute towards the minimization of ecumenical warming through Carbon Footprint abbreviation measures.
- CNLC Management decided to conduct an external Green Evaluation by a professional Green Auditor along with a Green Audit Assessment Team headed by Principal, Prof.(Dr.) P.K.Chaturvedi, Chotanagpur Law College, Ranchi.
- Green Audit or Environment Audit focuses on the Green Campus, Waste Management, Water Management, Air Pollution, Energy Management & Carbon Footprint etc. being implemented by the College Management. The concept, structure, objectives, methodology, tools of analysis, objectives of the audit are mentioned below.



4. CONCEPT

The term 'Environmental audit' or 'Green audit' means differently to different people. Terms like 'assessment', 'survey' and 'review' are also used to describe similar activities. Furthermore, some organizations/institutions believe that an 'environmental audit' addresses only environmental matters, whereas others use the term to mean an audit of health, safety and environment-related matters. Although there is no universal definition of Green Audit, many leading companies/institutions follow the basic philosophy and approach summarized by the broad definition adopted by the International Chambers of Commerce (ICC) in its publication of Environmental Auditing (1989).

The ICC defines Environmental Auditing as:

"A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects."

The outcome of Green Audit should be established with concrete evidence that the measures undertaken and facilities in the institution under green auditing.

5. INTRODUCTION

A Nation's growth starts from its educational institutions, where the ecology is thought as a prime factor of development associated with environment. Educational institutions now a days are becoming more sensitive to environmental factors and more concepts are being introduced to make them eco-friendly. To preserve the environment within the campus, various viewpoints are applied by the several educational institutes to solve their environmental problems such as promotion of the energy savings, recycle of waste, water reduction, water harvesting etc.. The activities pursued by colleges can also create a variety of adverse environmental impacts.

Environmental auditing is a process whereby an organization's environmental performance is tested against its environmental policies and objectives. Green audit is defined as an official examination of the effects a college has on the environment. As a part of such practice, internal environmental audit (Green Audit) is conducted to evaluate the actual scenario at the campus.

Green audit can be a useful tool for a college to determine how and where they are using the most energy or water or resources; the college can then consider how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. Green auditing and the implementation of mitigation measures is a win-win situation for all the college, the learners and the planet. It can also create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus.

Green auditing promote financial savings through reduction of resource use. It gives an opportunity for the development of ownership, personal and social responsibility for the students and teachers. Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

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.

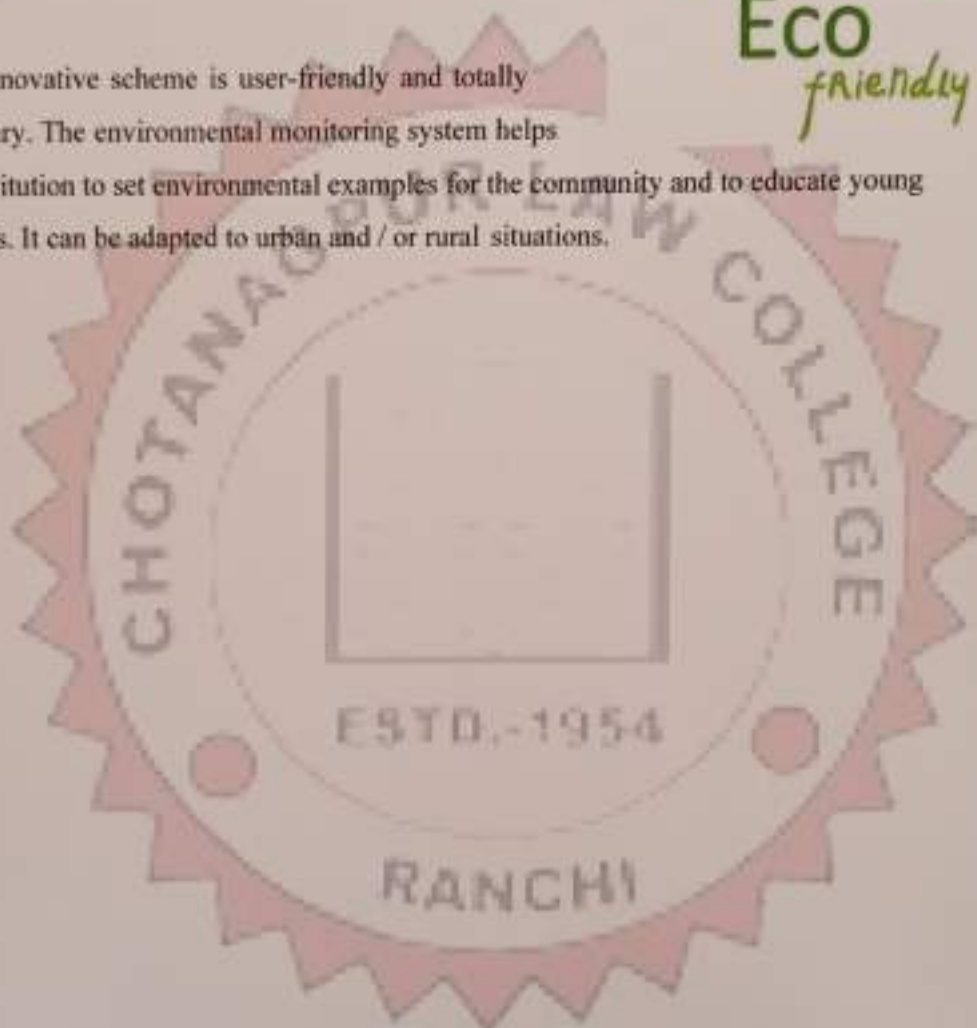
Environmental Management Systems (EMS) is very popular in the industrial sector, but the general belief is that EMS is something pertaining to industries only. Other parts of the world have started adopting compatible environmental management systems either voluntarily or for promoting standards by external certification. International environmental standards do not suit the existing Indian educational system. Hence EHS Alliance has developed a compatible system by developing locally-applicable techniques.

A very simple indigenized system has been devised to monitor the environmental performance of educational institutions. It comes with a series of questions to be answered on a regular basis. Environmental conditions may be monitored from angles that are relevant to Indian requirements, without stress on legal issues or compliance.



Eco
friendly

This innovative scheme is user-friendly and totally voluntary. The environmental monitoring system helps the institution to set environmental examples for the community and to educate young learners. It can be adapted to urban and / or rural situations.



6. OVERVIEW OF INSTITUTION

Chotanagpur Law College, Ranchi was established in the year 1954 by the great visionary of his time late Barrister S.K. Sahay who with his foresightedness envisioned an institution which would bring positive and dynamic changes in the tribally populated and economically poor regions of Eastern India and thereby bring stability, education, development and employment in their lives. It is one of the oldest and prime institution imparting Legal education in Jharkhand. The college was initially governed by BSUA (Bihar State Universities Act) and now since the formation of Jharkhand state in the year 2000, it is governed by Jharkhand State Universities Act, Statute no. 32. The Statute no. 32 constitutes the governing body of the college which comprises of a chairperson and six members each one from executive body, legislative body, ex-officio principal, teachers' representative, University representative, a donor member and a prominent educationist of the state.

The college is permanently affiliated body of Ranchi University, Ranchi and is also affiliated to BCI, New Delhi. The college offers three year (Semester system) L.L.B Program and a two year Semester system L.L.M (P.G. in law) program. The college follows the curriculum designed by the university which is in accordance with the Bar Council of India for legal education. The college offers 26 subjects in six semesters.

The college has safe, secure, lush green and environment friendly campus just at the scenic outskirts of Ranchi in a wide area of 4 acres. The college has a well-equipped digital friendly campus to undertake research, teaching and learning. The college runs on semester system and it lays great emphasis on academic as well as practical exposure to the budding young law professionals.

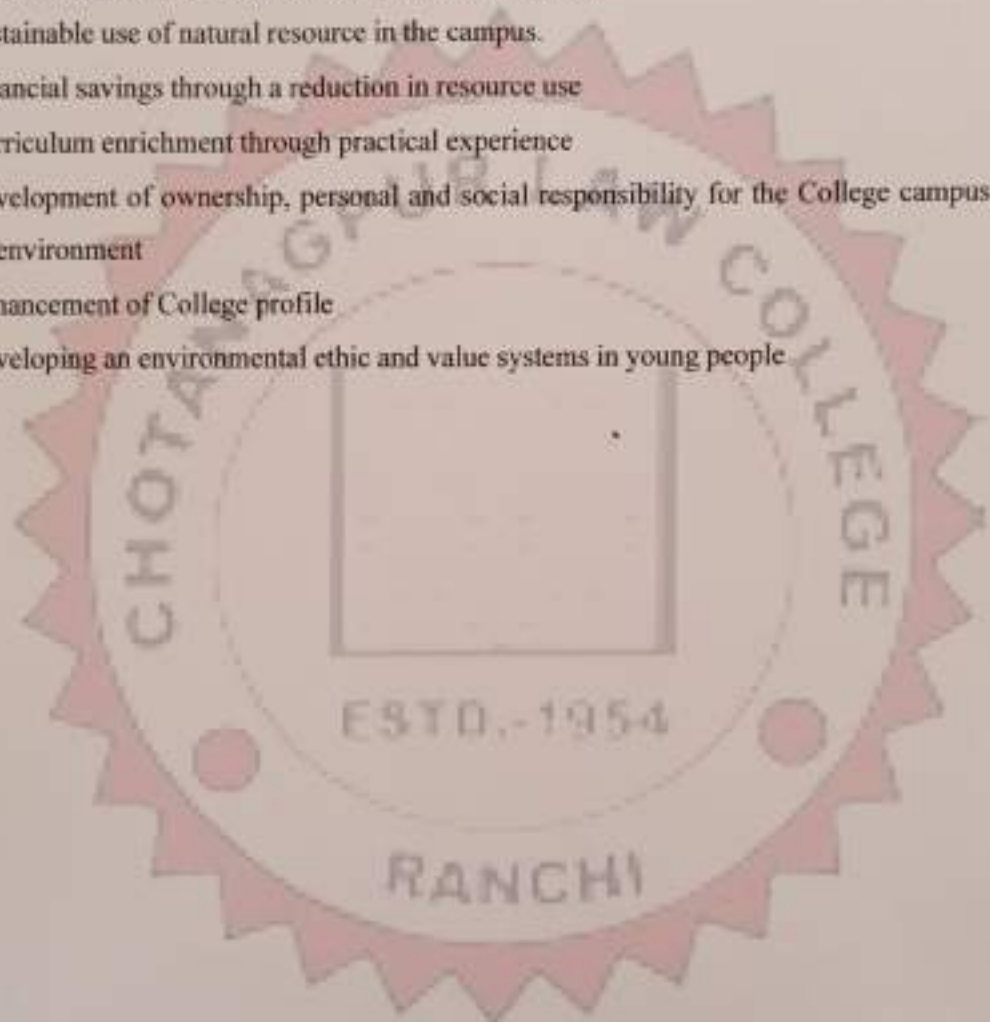




7. OBJECTIVES AND SCOPE

The broad aims/benefits of the eco-auditing system would be

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Sustainable use of natural resource in the campus.
- Financial savings through a reduction in resource use
- Curriculum enrichment through practical experience
- Development of ownership, personal and social responsibility for the College campus and its environment
- Enhancement of College profile
- Developing an environmental ethic and value systems in young people



8. AUDIT PARTICIPANTS

On behalf of the Chotanagpur Law College, Ranchi.

Name	Position/Department
Dr. P.K.Chaturvedi	Dean cum Principal, Faculty of Law, Ranchi University, Ranchi, CNLC, Ranchi.
Mrs. Sakshi Pathak	Coordinator, IQAC & Assistant Professor of Law
Dr. Nandita Adhikari	Assistant Professor of Law
Dr. G.A.Bilung	Assistant Professor of Law
Mrs. Lalsa Mohini	Assistant Professor of Law
Mr. V.N.Choudhary	Librarian cum In charge Accounts Section

On behalf of AGF Eco- Services:

Name	Position	Qualification
Mr. Ram Pratap Singh	Lead Auditor	IFS (Rtd.), M.Sc (P.U), AIFC
Er. Pramod Kumar	Co- Auditor	B.Tech, MBA (IIT)
Er. Dilip Srivastava	Co-Auditor	B.Tech, FIE, PHF

RANCHI



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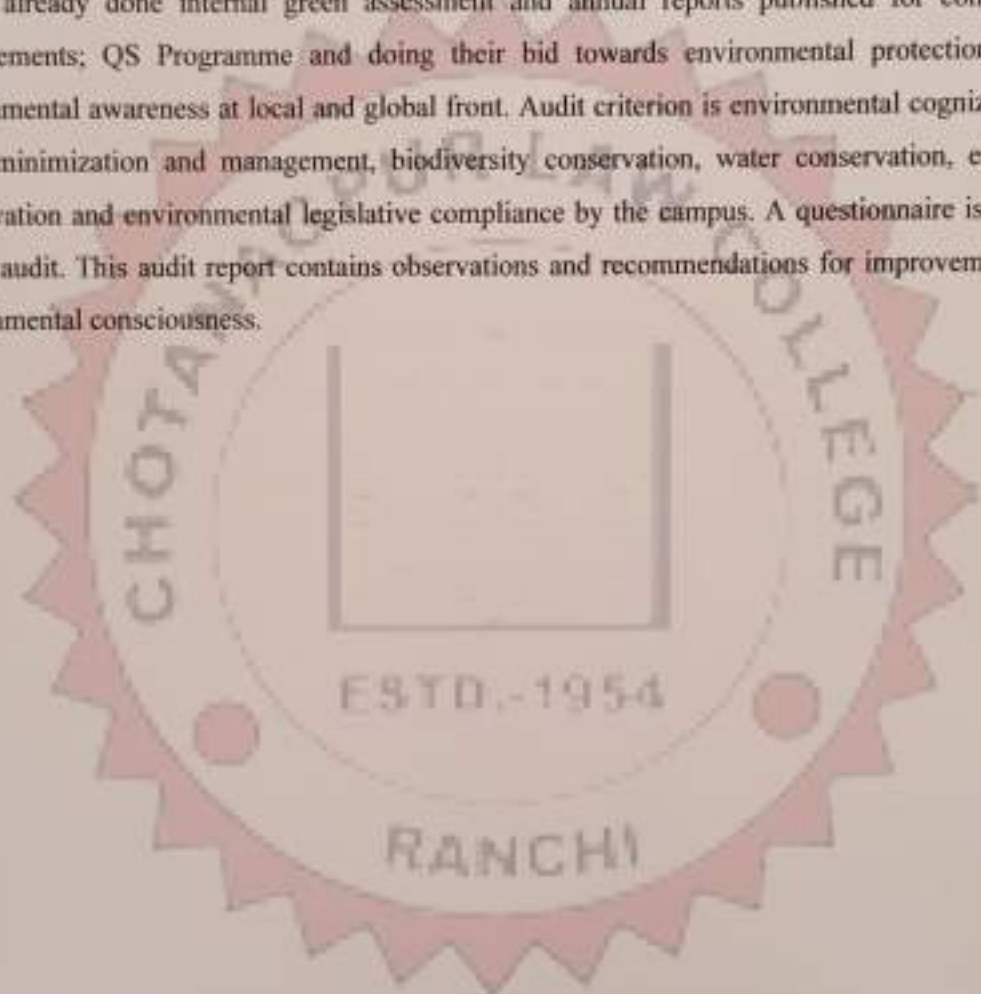
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9. EXECUTIVE SUMMARY

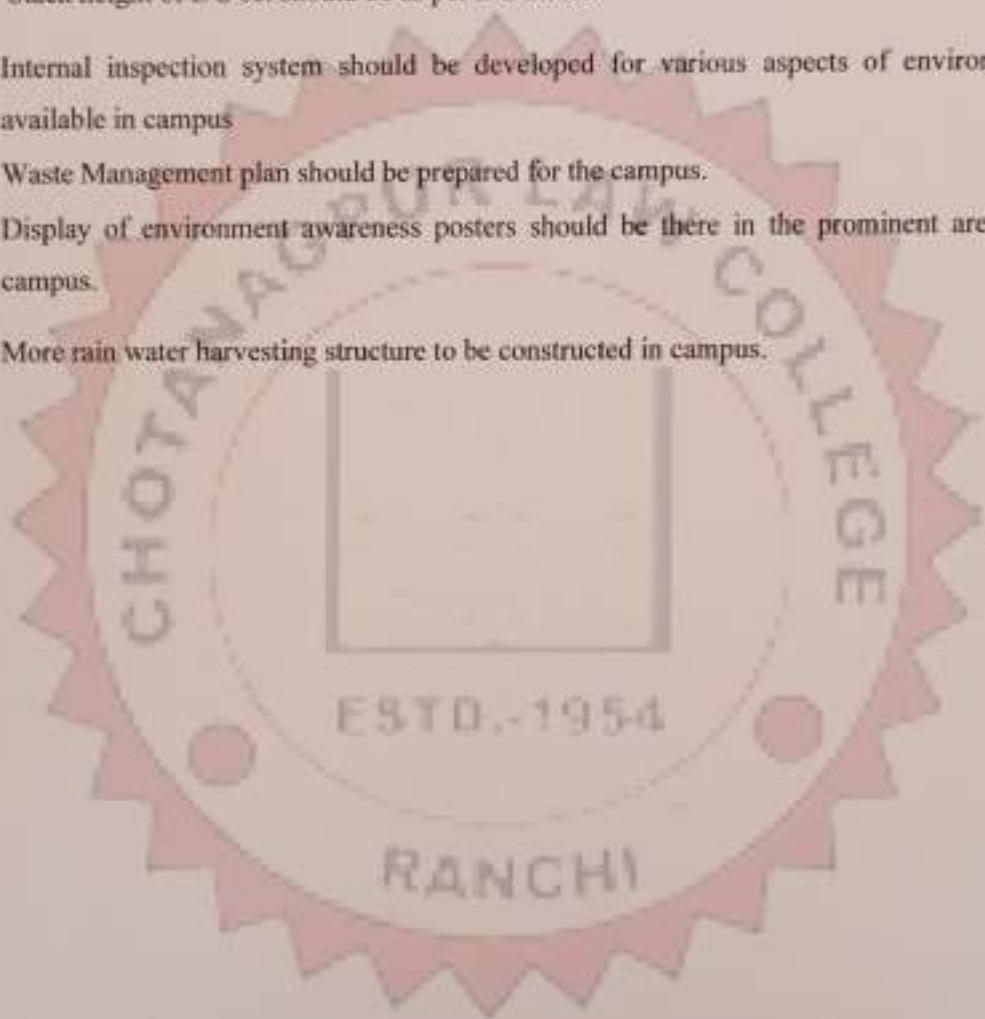
An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance.

CNLC already done internal green assessment and annual reports published for continual improvements; QS Programme and doing their bid towards environmental protection and environmental awareness at local and global front. Audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. A questionnaire is used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.



10. AREAS OF IMPROVEMENT

- Environment Policy to be adopted by the College Campus.
- Water Meter should be installed and maintain the inventory of ground water extraction resource bore well.
- Stack height of DG set should be as per DG Rules
- Internal inspection system should be developed for various aspects of environment available in campus
- Waste Management plan should be prepared for the campus.
- Display of environment awareness posters should be there in the prominent areas of campus.
- More rain water harvesting structure to be constructed in campus.



11. ENVIROMENTAL AUDIT – QUESTIONNAIRE

The areas of eco/environmental/green auditing to be followed/practiced by participating institutions:

11.1.1 Waste Minimization and Recycling

11.1.2 Greening

11.1.3 Energy Conservation

11.1.4 Water Conservation

11.1.5 Clean Air

11.1.6 Animal Welfare

11.1.7 Environmental Legislative

11.1.8 General Practices

Does any Environmental Audit conducted earlier?

The college has conducted the internal Green Audit under the NSS Eco Club of CNLC. The Annual reports records reviewed during the audit, Main focus of this is to bring awareness of environmental values in students and society. Now, the external audit for environment is awarded to AGF Eco – Services for a systematic way of monitoring the environmental eminence initiative, taken by College for environment protection.

What is the total permanent population of the Institute?

	Male	Female	Total
Students	389	266	655
Teachers	6	7	13
Non-Teaching Staff	14	2	16
Sub Total	409	275	684
Approximate Number of Visitors (Per day)			12
What is the total number of working days of your campus in a year?			240

Where is the campus located?

The campus is Located in Namkum block, District – Ranchi, Jharkhand.

**Which of the following are available in your institute?**

1 Garden area	Available
2 Play ground	Available
3 Kitchen	Available (Pantry)
4 Toilets	Available
5 Garbage Or Waste Store Yard	Available
6 Laboratory	Not Applicable
7 Canteen	Available
8 Hostel Facility (numbers)	Not Available
9 Guest House	Not Available

Which of the following are found near your institute?

1	Municipal dump yard	750m from the institute
2	Garbage heap	No Garbage heaps
3	Public convenience	Yes
4	Sewer line	Not Available
5	Stagnant water	No stagnation of water
6	Open drainage	No
7	Industry – (Mention the type)	No
8	Bus / Railway station	Namkum Station- 5.3 km Khadgarha Bus Stand – 7.4 km
9	Public halls	Yes

11.1 WASTE MINIMIZATION AND RECYCLING

1.	Does your institute generate anywaste? If so, what are they?	Yes, Solid waste, Canteen waste, paper waste, plastic waste, toiletry waste, Horticulture waste, etc.			
2.	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	Bio Degradable	Non-Biodegradable	Hazardous	others
		300kg	5kg	0	<5kg
3.	How is the waste generated in the institute managed? By 1 Composting 2 Recycling 3 Reusing 4 Others (specify)	<ul style="list-style-type: none"> • 2 composting pits are there in campus. • Reuse of one side printed paper for internal communication. • Sewage water is discharged to soak pits. • Domestic Waste is given to Municipal Corporation. • Two types of Waste bins are provided at campus for biodegradable and non-biodegradable waste. • Horticulture waste is converted into organic 			

		manure in the campus which is reused in the garden itself.
4.	Do you use recycled paper in institute?	Yes, in academic works
5.	Do you use reused paper in institute?	Yes
6.	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	Yes, NSS Eco club carries out numerous ecological activities. Recycling campaigns, Anti- plastic campaigns, Varsha Vriksharopan (Go Green Week Drive), Swachta Diwas on 2 nd Oct every year. And other sustainable goal awareness programme.
7.	Can you achieve zero garbage in your institute? If yes, how?	Yes, as per new waste management rules all kind of waste is managed in an adequate manner without any deviation.

11.2 GREENING THE CAMPUS

8.	Is there a garden in your institute?	Yes, about 1.6 Acre is the dedicated garden area. And about 1 Acre open green area.	
9.	Do students spend time in the garden?	Yes 30-60 mins during day time.	
10.	Total number of Plants in Campus	Plant type	Approx. number
		Trees	More than 350
		Shrubs	More than 1000
		Rose Garden	More than 400
		Grass Cover	1.6 Acre
11.	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	Ashoka, Ficus Religeosa, Boganvella, Alovera, Azadirachta indica , and many more as per geographical regime.	
12.	Is the College campus have any Horticulture Department	Yes, we have park and garden wing under NSS Eco club	

	Number of Staff working in Horticulture Department	Two Gardeners
13.	Number of Tree Plantation Drives organized by College per annum. (If Any)	Yes, Go Green Week Drive are Organized Annually. 10+ trees and 4000 and more seasonal shrubs planted in this financial year.
14.	Number of Trees Planted in Last FY.	35
	Survival Rate	75%
15.	Plant Distribution Program for Students and Community	Yes, we distribute plant to the visiting guest and faculties on different official program.
16	Plant Ownership Program	No

11.3 ENERGY

17.	List few ways that you use energy in your institute. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.	Electricity is saved by use of LED bulbs for illumination. LPG is saved by use of Pressure cookers for cooking food. Alternate source of energy i.e. Solar Panel Installed.
18.	Are there any energy saving methods employed in your institute? If yes, please specify. If no, suggest some	Yes, Renewable source of energy through solar plant is in process of installation. This saved energy shall be for domestic use and street light. Since the college is Green building Natural Lights and Natural Ventilation are promoted.
19.	How many CFL/LED bulbs has your institute installed?	90 % of Total Conventional bulbs are replaced by LED Lights.

20.	Are any alternative energy sources employed / installed in your institute? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.) Specify.	Yes, in pipe line.
21.	Do you run "switch off" drills at institute?	Yes, we encourage this habit among students and staffs.
22.	Are your computers and other equipment's put on power-saving mode?	Yes, we do it.
23.	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?	No

11.4 WATER CONSERVATION

24.	List uses of water in your institute	Basic usage of water in campus are; Drinking, Gardening, Kitchen & Toilets, and Others. Our tentative consumption of water is
25.	How does your institute store water? Are there any water saving techniques followed in your institute?	Underground Water tank installed for storage of water. Avoid overflow of water through controlled valves and water saving taps are provided in water supply system.
26.	If there is water wastage, specify why and How can the wastage be prevented / stopped ?	No
27.	Locate the point of entry of water and point of exit of waste water in your institute.	Entry- Through intake well Exit- For drain water in soak pits and rain water by rain water conservation

28.	Write down few ways that could reduce the amount of water used in your institute	By Following ways: 1. RWH, Close the taps after usage 2. Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage 3. Water Conservation awareness is promoted among students , staffs and faculty members.
29.	Record water use from the institute water meter for six months (record at the same time of each day). At the end of the period, compile a table to show how many litres of water have been used.	In process of installing water meter.
30.	Does your institute harvest rain water?	Presently we have 2 RWH and we will be adding more in coming year.
31.	Is there any water recycling System.	Yes, RO waste water is stored in buckets for cleaning and indoor plants

11.5 CLEAN AIR

32	Are the Rooms in Campus are Well Ventilated?	Yes
33	Window Floor ratio of the Rooms	Very Good

34	Provide details of college-owned motorized vehicles?	Buses	Cars	Vans	Other	Total
	No. of vehicles	-----	--	--	--	--
	No. of vehicles more than five years old	--	--	--	--	--
	No. of Air conditioned vehicles	--	--	--	--	---
	PUC done	--	--	--	--	--
35	Specify the type of fuel used by your college vehicles:	Total				
	Diesel	--				
	Petrol	--				
	CNG	--				
	LPG	--				
	Electric	--				
36	Air Quality Monitoring Program (If Any)	No monitoring is being done				
37	Students/staff suffer from respiratory ailments? (If Any)	No				
38	Details of Genset	2 Gensets				
		1. 10KVA Kariloskar water cooling system , Engine No: D91008.02/1600342 2. 25 KVAJACSON JSP -25				

11.6 ANIMAL WELFARE

39	List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)	More than 20-25 Squirrels are found in the campus, Approx., 2 cats 11 hens and others including garden lizard, butterflies, insects, bees, earthworms, snakes rats etc. are there in campus.
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40	How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	This aspect is being taken care by NSS Eco Club
41	Does your institute have a Biodiversity Programme or a KARUNA CLUB?	Linked with ECO Club

11.7 ENVIRONMENTAL LEGISLATIVE COMPLIANCE

42	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes In LL.B Environmental law is compulsory subject under the course curriculum. In LL.M it is a optional subject in specialization.
43	Does your institute have any rules to protect the environment? List possible rules you could include.	They have banned single use plastic. Their environment policy includes- Awareness, Environmental conservation efforts through NSS- Eco Club and Department of Environmental Sciences. All UG and PG students are studying environmental law under prescribed syllabus.
44	Does Environmental Ambient Air Quality Monitoring conducted by the Institute?	NA
45	Does Water and Wastewater Quality monitoring conducted by the Institute?	No
46	Does stack monitoring of DG sets conducted by the Institute?	Yes
47	Is any warning notice, letter issued by state government bodies?	No

48	Does any Hazardous waste generated by the Institute?	No
49	Does any Bio medical waste generated by the Institute? If yes explain its category and disposal method	No

11.8 GENERAL

50	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
51	Does your institute have any rules to protect the environment? List possible rules you could include.	Yes, there are some rules like e banned single use plastic. Their Environmental Policy includes awareness and environmental conservation.
52	Does housekeeping schedule in your campus?	Yes, Swatch Diwas movement and Go Green Drive.
53	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes, Periodically pollution reduction, plantation, energy conservation awareness campaigns carried out by institute
54	Does Important Days Like World Environment Day, Earth Day, and Ozone Day etc. eminent in Campus?	Yes
55	Does Institute participated in National and Local Environmental Protection Movement?	Yes, Swatch Bharat Abhiyan by students at campus.
56	Does Institute has any Recognition/certification for environment friendliness?	Yes
57	Does Institute using renewable energy?	Yes
58	Does Institution conducts a green/environmental audit of its campus?	Yes, This is first environmental audit done by the College.

59	Has the institution been audited / accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	Yes, NAAC Grade B+
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12. BEST PRACTICES / INITIATED FOR ENVIRONMENT

A	Biodiversity Conservation Flora and fauna conservation	They have lush green campus which provides habitat to various species. Recently conducted bird count reports Indian peafowl, Sunbird, black kite, house crow, large billed crow, eagle, vulture, common tailor bird, bulbul, Green bee eater, parrot, pigeon, bat.
B	Tree Plantation Drives One Drive Annually as well as Every Guest is honored by Tree Plantation at Campus.	Yes, periodically the plantation drives by students and staff of campus as Go Green Week.
C	Ground Water Recharge 05 units of Rain Water Harvesting System.	Yes, 100% recharge of the rain water
E	Pollution Reduction Personal Vehicles (Students) not allowed at campus	Reduction in Air Pollution through vehicular emission.
F	E Waste Management Collection of e-waste by staff	E waste is sent to the authorized recyclers for adequate disposal
G	Solid Waste Management Lifting of garbage from campus on alternate day by	Yes, different mechanisms for proper disposal and recycling of e-waste,
H	Water Conservation	Yes, water saving push taps fitted in the drinking water zone and the toilets to avoid the wastage. They are re-using RO waste water in for indoor plants and cleaning purposes.

13. RECOMMENDATION

- Formation of Environment Policy and communicated to all faculties and other staff members.
- Environmental Monitoring i.e. (Ambient Air Quality monitoring, Stack Monitoring of DG sets, Water monitoring need to be conducted by Delhi State Pollution Control Committee, approved laboratory with frequency of six month.
- Reduction in use of paper work by go digital system.
- Water Meter should be installed at institute for monitoring of water consumption for landscape.
- Increase in Environmental promotional activities for spreading awareness at campus.
- As practically feasible avoid use of personal vehicles inside the campus.
- Installation of Room Air Cleaner.



14. CONCLUSION

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. The Chotanagpur Law College has Environmental Committee for sustainable use of resources. Overall 75% of the college campus is for landscaping. The audit has identified several observations for making the campus premise more environmental friendly. The recommendations are also mentioned with observations for campus team to initiate actions.

The audit team opines that the overall site is maintained well from environmental perspective. There is no major observations but few things are important to initiate urgently are waste management records by monthly inventory of hazardous waste, rainwater harvesting recharge, water balance cycle and periodic inspection of buildings housekeeping and environment policy.



15. REFERENCES

- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 – The Petroleum Rules: 2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010,
- The Water [Prevention & Control Of Pollution] Act – 1974 (Amended 1988) & the Water(Prevention & Control of Pollution) Rules – 1975
- The Air [Prevention & Control Of Pollution] Act – 1981 (Amended 1987) The Air(Prevention & Control of Pollution) Rules – 1982
- The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules—1981
- E-waste management rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules,2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices
- Internal Records of the Campus



16. ANNEXURE OF PHOTOS





ENVIRONMENTAL AUDIT REPORT OF CHOTANAGPUR LAW COLLEGE, RANCHI

