# GREEN AUDIT REPORT FOR ACADEMIC SESSION 2023-24 GOVT SCIENCE COLLEGE CHATRAPUR



# GOVT SCIENCE COLLEGE CHATRAPUR,

**GANJAM** 

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Asth. Agril Engineer
Olo DDH. Ganjam

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## Team Members for Green Audit Committee

1. Dr Bijay Kumar Mohanty, Associate Professor (Retd.), Khallikote Unitary University, Berhampur.

2. Prof. B. Anjan Kumar Prusty, Professor & Head, Department of Environmental Science, Berhampur University (External member)

3. Ms Susree Sulagna; Beputy Director, Horticulture Berhampur (External Member)

Sri Manaoranjan Maharana, Asst Prof of Botany (Convenor)

B. Anjan Kumar Prusty, Ph.D Professor

Dept. of Environmental Science Berhampur University

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### **Background and Objective**

In these days world is moving toward its self-determined sustainable goals. This HEI which is turing the young minds of our nation must be oriented towards these sustainable goals and must continuously sensitised towards the Environmental issues. This college through action-based ogrammes regularly insists the values of Environment conservation and practice the "Go Green" ly lives. We regularly comply our College level energy Audit, save electricity, water, recycle ste materials, and perform plantation in many outreach activities through Youth Red Cross Unit, o Club, NCC and NSS programmes.

Green auditing is defined as an official review of college environmental impact Assessment. ; part of this movement, an internal environmental audit (Green Audit) is performed to assess the rrent ecological situation of campus. A green audit is a beneficial tool for a college to establish here and how much energy, water, or resources are being used. The institution can then examine nw to adopt improvements and save money. We are aimed to step forward in small steps in this illege level and spread this message through students in local communities. Our Green Audit sess the Carbon Footprint inside the college by examining the carbon dioxide emission intributed through various construction works, renovation works, vehicular emission inside this ollege and there by we train various stakeholders of this college to reduce the carbon foot print. tudent are taught not to use plastics inside and outside the college campus as it is the key waste or all environmental pollution hazard to wildlife.

Environmental Management System which was primarily meant for Industries now it becomes ecessary for all other institutes taking into account of larger environmental degradation in the name f national economic and social development. So, our students and other stakeholders are trained to ct according to the rules drafted in such policies.

### THE COLLEGE: AN OVERVIEW:

Jovt Science College is situated near Tampara Lake which is a Tourist of Odisha. The college is pread over 4.1 acres of Land besides NH-16 and NAC Chatrapur. Ganjam District being an Economically enriched part of south Odisha educationally has not stepped equal to its economy. Here male students end up with college dropouts due to various social or economic issues and lack proper guidance in terms of education and environmental protection and cleanliness of their surroundings. So, being a fully Govt. College situated at District Headquarters Government Science College, Chatrapur has been trying to reduce the above gap created locally and maintain the educational standard nationally.

Keeping the above objectives in hand of this college Green Audit committee has defined the following objectives.

- a. To state the current environmental issues related to local community which affect the stakeholders of this HEI.
- b. To extract the current threats to "Go Green" steps of college emerging due to beautification and renovation works.
- c. To emphasize more in waste management and conservation of water bodies in this semiurban community.

To motivate all the stake holders of this college towards self-involvement in campus cleaning and thus stretch helping hands to College Administration.

To draft a standard regulation for protection of College resources through College Administration.

## JRSE OFFERED

# Bachelor of Arts (Hons.) 256 SEATS PER YEAR

- Economics (64 seats)
- 2. English (32 seats)
- 3. History (64 seats)
  - Odia (64 seats)
- 5. Political Science (64 seats)

# Bachelor of Science (Hons.) 128 SEATS PER YEAR

- 1. Botany (64 seats)
- 2. Chemistry (48 seats)
- 3. Mathematics (32 seats)
- 4. Physics (48 seats)
- 5. Zoology (64 seats)
  - Bachelor of Commerce.
  - 1. Accounting Honors (256 seats)

te: All undergraduate degree courses are taught in three years, semester mode following the odel CBCS Curriculum.

e audit for the session 2023-24 was conducted in the month of March 2024 with the following

ers. Dr Bijay Kumar Mohanty, Associate Professor (Retd.), Khallikote Unitary University,

Berhampur.

Berhampur. mbers.

Prot. Berhampur University (External member)
Science, Bulgana. Deputy Director II Science, Bernam O/O Deputy Director, Horticulture Berhampur (External Member)

Ms Susree Sulagna, Deputy Director, Horticulture Berhampur (External Member) 3. Ms Susi Manoranjan Maharana, Asst Prof of Botany 4. Sri Manoranjan

An environmental audit is a assessment of consciousness of our work place in time that verify An environmental towards our fellow members of Biodiversity. The audit will be non-worthy when towards our mind set toward selfish behaviour towards Environment. The audit will be non-worthy when r commitment to the commitment doesn't change our management, disuse of plastics, energy conservation, insisting go green is audit include waste management and hygiene and spreading of sustainable maintenance of health and hygiene and spreading of sustainable is audit include the state of health and hygiene and spreading of sustainable goal ideas among actices, maintenance of health and hygiene and spreading of sustainable goal ideas among actices, and recommendations and recommendations. actices, manner and spreading or sustainable goal ideas among memor people. This audit report includes observations and recommendations for increasing among awareness. nvironmental awareness.

NVIRONMENTAL AUDIT QUESTIONNAIRE 1. Does any Environmental Audit conducted earlier? Ans- No

NVIRONAL Does any Environmental Translation of the Instit	ute?	Total
1. Does any Environmental Table  1. What is the total population of the Instit  2. Male	Female	1727
806		38
Students 20	18	27
Teachers 23	943	1792
Non-Teaching Staff 23  Non-Teaching Staff 849		205 days approximately
Sub Total  Approximate Number of Visitors (Per day)  Approximate total number of working days of years the	our campus in a year?	205 days approximation
Approximate and the total number of working days or y		Chatranur Block Ganjam

3. Where is the campus located? At College square, Chatrapur town of Chatrapur Block Ganjam What is the total num

3. Where is the carry	-
4. Which of the following are available i	n vour institute?
sthe following are available i	II your
4. Which of the following	Yes
1 Garden area	Yes
2 Play ground	No
3 Kitchen	Yes
4 Toilets	Temporary
5 Garbage or Waste Store Yard	Yes
6 Laboratory	No
7 Canteen	No
8 Hostel Facility (numbers)	Yes
9 Guest House	100
	0

	Lucar your institute?
_	5. Which of the following are found near your institute?  About 2 kms away
1	1 Municipal dump yard
L	2 Garbage heap

Public convenience	Yes	
Public conv	yes	
Sewer line Sewer line	No	
130114	yes	
Mention the type)	No	
Open drainage Open drainage Industry – (Mention the type) Bus / Railway station Lic halls	Yes, half Km distance	
	Yes, 500mts away	
Public halls		

WASTE MINIMIZAT	TION AN	ID RI	ECYC	LING
WASTE			Voc	C-1:4 -

	CEE MINIMIZATION AND RE	CYCLING			
6.	WASTE MINIMIZATION AND RE Does your institute generate any poes of so what are they?	Yes, Solid waste, paper waste, plastic waste, toiletry			aste, toiletry
-	Does your thousand	waste, etc.			
1	waste? If so, what are they?  What is the approximate amount of  What is the approximate amount of  generated per day? (in	Bio	Bio-Non-	Hazardous	others
	What is the day? (in	Degradable	degradable		
2	waste generath) (approx.)	5Kg	1Kg	500gms	NA
7-1	Kilograms/month) (approximately Kilograms/month) (approximatel	1 composting	g pit is there in	campus,	
	The Waste generates	Reuse of	one side pri	nted Paper	for internal
3	Little Mallab	communicati			
26.1	1 Composting	Domestic W	aste is given t	o NAC.	
	2 Recycling	Two types of	f Waste bins	are provided	at campus for
	- $ ain 0$	hiodegradah	le and non-bio	odegradable v	aste.
MT I	· - ICDECITY	Vos. used in	SAMS section	n.	
	4 Others (specify)  Po you use recycled paper in	res, used in	Di Rivis seems		_
4	110 100	37			
	institute?  Do you use reused paper in institute?  Do you use reused paper in message	Yes NCC	Vouth Red C	ross and NS	S carried out
5	Do you use reused paper in instruction.  Do you use reused paper in instruction.  How would you spread the message  How would you others in the		ativities Rec	veling camp	algiis, C mass
6	How would you specified to others in the	numerous a	t, plastic Free	Campus can	npaigns.
	of recycling vou taken any	I			
	community? That is specify.		waste m	anagement ri	ales all kind of
	community? Have your initiatives? If yes, please specify.	Yes, as per new waste management rules all kind of waste is managed in an adequate manner without any			er without any
7	initiatives? If yes, please specify Can you achieve zero garbage in your Language how?	waste is ma	naged ill all a	acquare	
	institute? If yes, how?	deviation.			
	in your institute?	Yes		Approx. 1	number
8	Is there a garden in your institute?	Plant type		About 140	
9	Is there a garden in your management of Plants in Campus	Trees		About 350	
	THE STATE OF THE S	Shrubs		1.8 Acre	
	101	Grass Cove	r	1.8 Acre	
	i any	No			
10	Is the College campus have any	110		D. in con	are Organized
10	. 1. Donortmelli	Ves Three	Tree Plant	ation Drives	are Organized ademic year
11	Troe Plantation Dives		Tree Plant 50+ trees plar	ited in this ac	audino j
11	organized by College per annum. (If	Alliuany.	-		
	Amri				
12	Number of Trees Planted in Last AY.	26			- FD bulbe for
12	Survival Rate	55%	ic saved h	by use of	LED bulbs for
13	List few ways that you use energy in	Electricity	15 54,00	•	- 1 managed
13	your institute. (Electricity, LPG,	illuminatio	Π.	rgy i.e. Sola	r Panel proposed
1	firewood, others). Using this list, try	Alternate s	source of che	- 01	
	inewood, others). Using this had, as	1 - incta	IPO.		
	to think of ways that you could use			of energy th	rough solar plant
14	less energy every day.	D remaile source of energy through			
14	Are there any energy saving methods				ious locations to
1	employed in your institute? If yes,				
	please specify. If no, suggest some	aware the	People about	Ellergy but	
PERSONAL PROPERTY.	1 200	unit			
THE REAL PROPERTY.					

		Use of Natural Lights and Natural Ventilation are
		promoted.
/	How many CFL/LED bulbs has your  How installed?  Gravitch off' drills at	100 % of total Conventional bulbs are replaced by
	many CFL/E	LED Lights.
/	How many Cruzers and other	Yes
15	institute run "SWITCH" OA	
/	Do you and other	Yes, In Practice
16	nstitute? computers and other Are your put on power-saving equipment's put on power-saving	
/	Are your on power-saving	
17	auipment's per	
	ode? (TV, AC,	No
h.	equipment 3 1  mode?  Does your machinery (TV, AC, weighing balance, auter, weighing balance,	
18	weighing weighter, weighter, weighter,	
	compare etc.) run on standoy	
	Does you weighing balance, computer, run on standby modes printers, etc.) run on standby many	
		Basic usage of water in campus are; Drinking,
	hours? fwater in your institute	Gardening & Toilets, and Others. Total consumption
	hours? List uses of water in your institute	Gardening & Tollets, and Others.
9		is 300 KL/month (approx.)
	How does your institute store water?  How does your institute store water?	Overhead Water tank installed for storage of water.
_	How does your institute steel	
20	How does your institute store water Are there any water saving techniques	
	Are there any water strain followed in your institute?  followed in your institute?  story wastage, specify why	No
	followed in your institute?  If there is water wastage, specify why  are the wastage be prevented	
1	If there is water wastage, speeds and how can the wastage be prevented	1
	and how can the	Entry- Water comes from bore well on the campus
	/stopped?  Locate the point of entry of water and  Locate the point of entry water in your	Entry- Water comes from bote wen state Exit- From Water Drainage System to the soak pits
2	Locate the point of entry of water point of exit of waste water in your	Exit- From Water Dramage 57
	point of exit of Waste Water	
	institute.	By following ways:
23	C - TYOU'S IIIat Com	1 Close the taps aller usage for new students
23	Write down few ways that reduce the amount of water used in	Water Conservation awareness for new states     No, instead we have water charging points where rain
		instead We liave water
-	your institute   Does your institute harvest rain	water goes underground
24	Does your meets	Water good
-5	water?	
7.	CLEAN AIR	Yes
25	Are the Rooms in Campus being Well	
	Ventilated?	
_		Vary Good
26	Window Floor ratio of the Rooms	Very Good
	Window Floor ratio of the Rooms	NIL
	Window Floor ratio of the Rooms  Provide details of college-owned	NIL
27	Window Floor ratio of the Rooms  Provide details of college-owned  motorized vehicles?	NIL
27	Window Floor ratio of the Rooms  Provide details of college-owned  motorized vehicles?	
27	Window Floor ratio of the Rooms  Provide details of college-owned motorized vehicles?  Air Quality Monitoring Program (If Any)	NIL  No monitoring is being done
27	Window Floor ratio of the Rooms  Provide details of college-owned motorized vehicles?  Air Quality Monitoring Program (If Any)	NIL
27 28 29	Window Floor ratio of the Rooms  Provide details of college-owned motorized vehicles?  Air Quality Monitoring Program (If Any)  Students suffer from respiratory	NIL No monitoring is being done No
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27 28 29 30	Window Floor ratio of the Rooms  Provide details of college-owned motorized vehicles?  Air Quality Monitoring Program (If Any)  Students suffer from respiratory ailments? (If Any)  Details of Genset	NIL No monitoring is being done No No
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228 229 330	Window Floor ratio of the Rooms  Provide details of college-owned motorized vehicles?  Air Quality Monitoring Program (If Any)  Students suffer from respiratory ailments? (If Any)  Details of Genset  ENVIRONMENTAL LEGISLATIV	NIL No monitoring is being done No No PE COMPLIANCE
27 28 29 30	Window Floor ratio of the Rooms  Provide details of college-owned motorized vehicles?  Air Quality Monitoring Program (If Any)  Students suffer from respiratory ailments? (If Any)  Details of Genset  ENVIRONMENTAL LEGISLATIV  Does Environmental Ambient Air	NIL No monitoring is being done No No
228 229 330	Window Floor ratio of the Rooms  Provide details of college-owned motorized vehicles?  Air Quality Monitoring Program (If Any)  Students suffer from respiratory ailments? (If Any)  Details of Genset  ENVIRONMENTAL LEGISLATIV  Does Environmental Ambient Air Quality Monitoring and ducted by the	NIL No monitoring is being done No No PE COMPLIANCE
27 28 29 30 8 31	Window Floor ratio of the Rooms  Provide details of college-owned motorized vehicles?  Air Quality Monitoring Program (If Any)  Students suffer from respiratory ailments? (If Any)  Details of Genset  ENVIRONMENTAL LEGISLATIV Quality Monitoring conducted by the Institute?	NIL No monitoring is being done No No PE COMPLIANCE No
27 28 29 30 8 31	Window Floor ratio of the Rooms  Provide details of college-owned motorized vehicles?  Air Quality Monitoring Program (If Any)  Students suffer from respiratory ailments? (If Any)  Details of Genset  ENVIRONMENTAL LEGISLATIV Quality Monitoring conducted by the Institute?  Does Water and Westewater Quality	NIL No monitoring is being done No No PE COMPLIANCE
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27 28 29 30 8 31	Window Floor ratio of the Rooms  Provide details of college-owned motorized vehicles?  Air Quality Monitoring Program (If Any)  Students suffer from respiratory ailments? (If Any)  Details of Genset  ENVIRONMENTAL LEGISLATIV  Does Environmental Ambient Air Quality Monitoring conducted by the Institute?  Does Water and Wastewater Quality monitoring conduct by the Institute?  Is any warning the singular by the Institute?	NIL No monitoring is being done No No PE COMPLIANCE No
26 27 28 29 30 8 31 32 33	Window Floor ratio of the Rooms  Provide details of college-owned motorized vehicles?  Air Quality Monitoring Program (If Any)  Students suffer from respiratory ailments? (If Any)  Details of Genset  ENVIRONMENTAL LEGISLATIV Quality Monitoring conducted by the Institute?  Does Water and Westewater Quality	No monitoring is being done  No  No  PE COMPLIANCE  No  No

	Does any Hazardous waste generate	No
34		
	BIO MEDICAL WASIE VEHERALE	No
35	1 hetime / H ves exhiam us	
	- and disposal incurve	Yes
36	Are you aware of any environmental Laws pertaining to different aspects	Yes
<b>J</b> U	of environmental management?	
	Does your institute have any rules to	Yes, there are some initiatives like home to in the
37	the environment, List	Yes, there are some initiatives like banned single use plastic. Their Environmental Policy yet to be
1	project the rules you could include.	formulated.
	Does housekeeping schedule in your	Yes, Swatch Bharat movement
38	- 2	
	-4. donts and laculus awais of	Yes, Periodically pollution reduction, plantation,
39	environmental cleanliness ways? If	energy conservation awareness campaigns carried out
	- E-mlain	by institute
10	Important Days Like World	Yes
10	Environment Day, Earth Day, and	
	Ozone Day etc. eminent in Campus?	Yes, Swatch Bharat Abhiyan by students at campus.
11	Does Institute participate in National and Local Environmental Protection	1 os, o water amarat rought by
	and Local Environmental Trecessor	
	Movement?  Does Institute have any	No
12	Does Institute have any Recognition/certification for	
	environment friendliness?	1
13	Does Institute use renewable energy?	Future proposal  Yes, this is first environmental audit done by the
14	Doog Institution conduct a	
77	green/environmental audit of its	College.
	campus?	

## 9. INITIATIVES TO BE TAKEN

- Renewable Energy: Solar panel is proposed to be functional throughout the year.
- Plantation drive:
- Pollution Reduction: Personal Vehicles (Students) not to be allowed at campus beyond a
- Solid Waste Management: NAC lifts the waste materials twice a week on request.
- Adoption of Village/society: Yes, through NSS Units
- Water Conservation: Yes, water saving push taps to be fitted in the drinking water zone and the toilets to avoid the wastage.

- 1. Draft environmental policy by college Administration that is to be conveyed to all faculties
- 2. Environmental Monitoring (Ambient Air Quality Monitoring, Water Monitoring) must be performed on a quarterly basis in collaboration with the Dept. of Environmental Science, Berhampur University.
- 3. Use of digital systems to reduce the need of paperwork.
- 4. A water metre should be put at the institute to track water consumption.

5. Increase environmental promotional events on campus to raise awareness.

# SUGGESTIONS FOR IMPROVEMENT:

- Environment Policy to be adopted by the College Campus.
- The college has multiple (about 5) electric water pumps. This must be restructured to reduce the no. of pumps for less energy consumption.
- Hazardous chemicals and waste should be stored in a designated area, and safety/warning signs should be placed.
- Unused college land must be labelled and may be converted to college park.
- A waste management system for the campus should be developed.





(Campus Cleaning activities by Naval NCC and NSS Volunteers)



Plantation through celebration of Vanmahotshav)

(Garbage Collection)

conclusion:

This audit entailed comprehensive engagement with the whole campus team, as well as meetings the audit entailed comprehensive engagement with the whole campus team, as well as meetings are often accompanied by observations for the college to act on. According to the second team, the overall site is properly managed in terms of environmental guidelines. Critical team, the overall site is properly managed in terms of environmental guidelines. Critical and team, the overall site is properly managed in terms of environmental guidelines. Critical maintain revealed the lack of awareness among students, especially the newcomers towards for sequence of the property of the

ignature of team members:

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Zanghan

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