INDIRA GANDHI GOVT. COLLEGE PANDARIA, DISTT. – KABIRDHAM (C.G.)



ENVIORNMENT AUDIT REPORT

2024

Environmental Audit Assessment Team

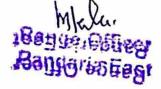
(Internal Auditors)

- Mr. Madhusudan Singh Rajput (Asst. Proff) Department of Sociology
- Mr. Dinesh Kumar Kashyap (Asst. Proff) Department of History
- Mr. Omprakash Dewangan (Asst. proff) Department of Mathematics
- Mr. Chitrasen Thakur (Asst. Proff) Department of Botany
- •Mr. Satyam Kumar Dounde (Asst. Proff) Department of Zoology
- Mrs. Madhuri Ratna Bhaskar (Asst. Proff) Department of Zoology
- Mr.Bhanjan Saw (Asst. Proff) Department of Botany

(External Auditors)

Mahendra Joshi

Renge Officer Pandariya



Acknowledgement

By Environment Assessment Audit Team of Indira Gandhi Government College, Pandariyaof is very much thankful to Principal Dr. B.S.Chauhan, IQAC Coordinator for motivating us for 'Environment Audit 'For Evaluation of Institution's Environment of different Area eg.-Facilities, water, Atmosphere, Waste Management Etc.& Create Sustainable Community in an Institution Via Audit Report.

CONTENTS

- Introduction
- Campus Overview
- Courses offered by Institutions
- Objectives
- Audit Participants
- Area of Environment Audit
- Recommendations
- Conclusion
- Summary

INTRODUCTION

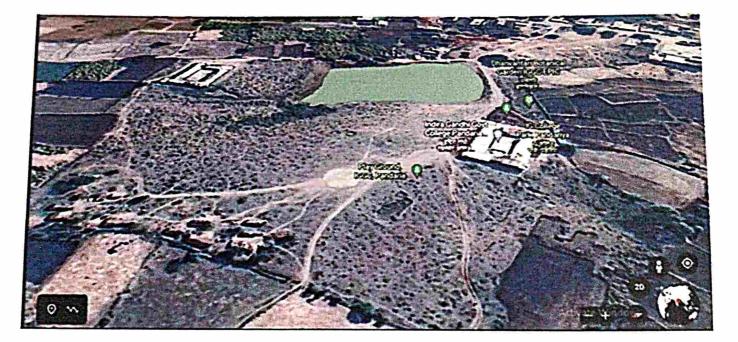
A Nation's growth starts from its educational institutions, where the ecology is thought as a prime factor of development associated with environment. Educational institutions now days are becoming more sensitive to environmental factors and more concepts are being introduced to make them eco-friendly. 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.

CAMPUS OVERVIEW

Indira Gandhi Government College, Pandaria is emerging college in Kabirdham District of Chhattisgarh. It was established in 1984 and enlightening the student fraternity of Pandaria and nearby villages. The most respected first Principal Dr. V. B. Choudhary gave special attention to College. The College has touched new heights by making its goal meaningful. The college was established in 1984, when the college had a system of study in the arts faculty till graduation. Started 38 years ago with about 100 students, the college is today imparting education to about 1150 students. Earlier, the college was being run in an additional room of basic primary school Pandaria which is today operating from its own 15 acre building in Village-Rauha (Pandaria). In this college from the academic session 1984 to 2008 only B.A. Classes of the Faculty of Arts continued to be conducted. In the Education session 2008-09, B.Sc. and B.Com. Classes were started under public participation and from the session 2010-11, MA in SociologyM.Com Begins in 2019 Session, History and Hindi literature classes are conducted under state Government. Today the study-teaching work of all the faculties of the college is being done continuously.



Geographical location of Indira Gandhi Government College, PandariaDistt.-Kabirdham (A/C To Google earth)

Courses offered by Institutions

Indira Gandhi Govt, College Pandariya imparts Education to Undergraduates in the following Departments:

Arts Streamt

- Department of Sociology
- Department of History
- Department of Geography
- Department of Political Science
- Department of Economics
- Department of Hindi
- Department of English

Science Stream:-

- Department of Mathematics
- Department of Physics
- Department of Chemistry
- Department of Botany
- Department of Zoology

CommerceStream:-

Department of Commerce

Courses offered:-

Bachelor of ArtsBachelor of ScienceBachelor of Commerce

1. Economics

1.Mathematics

1. Commerce

2. English Literature

2. Physics

3. Hindi literature

3. Botany

5. Miliul literatu

a Chamalako

4. History

4. Chemistry

5. Political Science

5. Zoology

6. Sociology

7. Geography

^{*} English & Hindi Foundation Courses are mandatory for each stream so they are not listed here in any stream.

Indira Gandhi Govt, College Pandariya imparts Education to Postgraduates in the following Departments:

- 1, Masterof Arts in Hindi Literature
- 2. Master of Arts in Sociology
- 3. Master of Arts in History
- 4. Master of Commerce

OBJECTIVES

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.
- Reduction in resource use.
- 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 HEI's profile.
- Developing an environmental ethic and value systems in young people.

AUDIT PARTICIPANTS

INTERNAL AUDIT EVALUATORS:-

On behalf of Institute:

- Mr.Chitrasen Thakur Department of Botany
- Mr. Bhola ram Dhritlahre Department of Chemistry
- Mr. Shivram Krishna Chandrakar Department of Chemistry
- Mr. Satyam Kumar Dounde Department of Zoology
- Mrs. Madhuri Ratna Bhaskar Department of Zoology
- Mr. Omprakash Dewangan Department of Mathematics
- Miss. NileshwariChandrakarDepartment of Physics

EXTERNAL AUDIT EVALUATORS

Areas of Environmental audit

The Areas of Ecological/Environmental to be followed/practiced by participating Institutions:

- Waste Management & Recycling
- Greenery Management & Restoration
- Energy Conservation& Management
- Water Conservation & Management
- BestPractices/InitiativesforEnvironment

Which of the following are available in your institute:-

1	Gardenarea	Available	
2	Play ground	Available	
3	Kitchen	Not Available	
4	Toilets	Available	
5	GarbageorWasteStoreYard	Not Available	
6	Laboratory	Available	
7	Canteen	Not Available	
8	HostelFacility	Not Available	
9	GuestHouse	Not Available	
10	Gymnasium	Available	
11	YogaPracticeHall	Not Available	

Whichofthefollowingarefoundnearyourinstitute?

1	Dumpyard	Notinvicinityofinstitute
2	Garbageheap	NoGarbageheaps
3	Publicconvenience	Yes
4	Sewer line	No
5	Stagnantwater	1 Pondsinsidethecampus
6	Opendrainage	Yes
7	Industry—(Mentionthetype)	No
8	Bus/Railwaystation	Neartothecampus (1 Kms around from college)
9	Publichalls	No

WasteManagementandRecycling				
If so, whatarethey?	Yes,Solidwast waste,Biocher	te,Liquidwaste,par micalwaste,Hortic	perwaste,pl ultureWast	astic e,etc.
Whatistheapproximateamountofwastegen erated perday? (inKilograms/month)(approx.)	Bio degradable	Non- Biodegradable	Hazard ous	others <6kg
Howisthewastegeneratedintheinstit utemanaged?By 1 Composting 2 Recycling 3 Reusing 4 Others(specify) Doyouuserecycledpaperininstitute? Doyouusereusedpaperininstitute?	Sewagewater Pits.Twotype campusforbic biodegradab Yes Yes Communica	fonesideprintedP	provideda on- aperforin	ternal
Howwouldyouspreadthemessageofrecyc lingtoothersinthecommunity? Haveyouta kenanyinitiatives? If yes, pleasespecify.	Yes The Envarious Semmanagemen	nvironment Com ninars Events Fo nt.	mittee has r Awarene	ess to
Canyouachievezerogarbageinyourinstit ute?Ifyes,how?	Kindof	ewwastemanage nagedinanadequa ation.		

Greenery Management & Restoration

_	T. thereagreen area		
1	Isthereagreen areainyourinstitute?	Yes,isthe9 AcreGreenArea	in Our Institute.
2	Doesstudentsspendtimeinthegarden?	No. of the Control of	III Out material
3	TotalnumberofPlantsinCampus	1-2Hoursina day	
		Planttype	Approx.number
1		Trees	Morethan350
		Shrubs	Morethan 1000
1	Suggestplantsforyourcampus.(Trees,vegeta	GrassCover	4Acres Area
Γ	bles, herbs,etc.)	Mostly dominant Plant Sp	ecies
	oles, same,	Acaciasp., Cynodon	
		grass, Buteamonosperma,	Hibiscussp.etc
		&also present persistant p	lants
1		spe.ie. Coccusnucifera, Os	miumsp.and
		fruits and Ornamental plan	ts also
5	IstheCollegecampushaveanyHorti	No, But for the Surveilla	nce of College
	cultureDepartment	Garden & Management I	Jas One Gardner.
		Garden & Management 1	las One Garanes
	NumberofStaffworkinginHorti		
	cultureDepartment		in a principal of the control of the
6	Number of Tree Plantation Drives	OneGardener	
О	with the Call and	No, in an institution has	specific kind of
	organizedbyCollegeperannum.(IfAny)	organization but by the s	tudents through
		projects tree Plantation p	orogram organized.
	NumberofTreesPlantedinLastFY.	80-90% persistent plants	s are survive but in
	SurvivalRate	case of Ephemeral plant	
8	PlantDistributionProgramforStudentsandCo		
- 1	mmunity	distribution for commun	
ľ	miumey		my & also conege.
9	Dlant Our marsh in Drag arrays	NI	
7 1	PlantOwnershipProgram	No	

- 1	ev Col	nserva	tion &	Man	igem	ent
- 80	and the second	Spin-				

mels	A second	
	Listfewwaysthatyouuseenergyinyourinstitu te.(Electricity, LPG, firewood, others). Usingt hislist, trytothinkofways thatyoucoulduseless energy everyday.	Electricityissavedby useofLEDbulbsforillumination;The LPG gas use in science laboratory for general purpose .Alternate
	Arethereanyenergysavingmethodsemployed invourinstitute?Ifyes, pleasespecify	Alternate sourcefor energyi.e.inverter Installed. Alternate sourcefor energyi.e.inverter Installed.& also .Messageswillbedisplayedatvariouslocationst oawarethePeopleaboutEnergySavings.UseofN aturalLightsandNaturalVentilationarepromote d.
5	HowmanyCFL/LEDbulbshasyour instituteinstalled?	80%ofTotalConventionalbulbsare
	Areanyalternativeenergysourcesemployed/installedinyourinstitute?(photovoltaic cellsforsolarenergy, windmill, energy coserver, energy efficients to ves, etc.,) Specify.	replacedbyLED/CFLLights. Yes, Alternate sourcefor energyi.e.inverter Installed
	Doyourun"switchoff'drillsatinstitute?	Yes
	Areyourcomputersandother equipment's putonpower-savingmode?	Yes,InPractice
	Doesyour machinery(TV,AC,Computer,weighing balance,printers,etc.)runonstandbymodesmos tofthetime?Ifyes,how manyhours?	No

WaterManagement & Conservation

1	Listusesof waterinyour institute	Basicusageofwaterincampusare;Drinking, Gardening& Toilets, andOthers.Andtotalconsumptionis 270KL/month
2	Howdoesyourinstitutestorewater?Are there any water saving techniquesfollowedinyourinstitute?	Pond Water is Casual usage for Gardening & college has water Harvesting System.
3	Ifthereiswaterwastage, specifywhy and Howcanthewastage beprevented/stopp ed?	Yes, the collage is situated In low rainy area & for the prevention of water wastage the college has water harvesting system
	Locatethepointofentryofwaterandpointofexi tofwastewaterinyour institute.	Entry-Groundwater Exit-1. Extra drinking water flows in plants community 2. the sewage water dispose into a sewage pits.
5	Writedownfewwaysthatcouldreducetheamou nt ofwaterusedinyourinstitute	ByFollowingways: 1. RWH,Closethetapsafterusage2. Maintenanceandmonitoringofvalvesinsupplys ystemtoavoidoverflow,leakageandspillage3.W aterConservation awarenessfor students.
6	Doesyour instituteharvestrainwater?	FournumberofModernrainwater harvestingsystemareavailable.

ality

AretheRoomsinCampusareWell	Yes
Aretilated? gratioof the Rooms	Good
AretheRooms Ventilated? Ventilated? VindowFlootratioof theRooms WindowFlootratioof-owned Providedetailsofschool-owned Providedetailsofschool-owned Providedetailsofschool-owned	No, any kind of motorized vehicles for students or other collage prospective.
	None None None None
pUCdone puCdone Specifythetypeoffuelusedby your college's vehicles:	IN college has not own vehicles but the college faculty are use different kind of vehicles and also consumptions different kind of fuel's
100	Some cars
Diesel	Bikes
petrol	None
CNG	Laboratory usage
LPG	induction
Electric Electric Program(IfAny)	No
Electric 5 AirQualityMonitoringProgram(IfAny) Studentssufferfromrespiratory 6 aliments?(IfAny)	No Yes,About695kVAGeneratorPowerbackupis
7 DetailsofPowerbackup	yes,About695kVAGeneratori provided

EnvironmentalLegislativeCompliance

EDVII	onmentalice	
2	institutehaveanyrulestoprotecttheenvironment ?Listpossiblerulesyoucouldinclude	Wehavebannedsingleuseplastic. Theiren vironmentpolicyincludesawareness, and environmentalconservationeffortsthrou ghscience Club. AllundergraduatesarestudyingthepaperofEnvironmentalScience, prescribedby UGC.
	3 DoesEnvironmentalAmbientAirQualityMo	NA
	nitoring conductedby theInstitute? DoesWaterandWastewaterQuality monitoringconductedbytheInstitute?	Yes

		The second secon
•	DoesstackmonitoringofDGsetsconducted hytheInstitute?	No
	many warming notice, letters sued by state	Yes, in a form of Hazardous material sulphuric,
		management did by the neutral
	DoesanyBiomedicalwastegeneratedbytheInstitute?Ifyesexplainitscategory anddisposalmethod	Yes in form of sanitory pads and the in college has also pas distraction machine



_	AreyouawareofanyenvironmentalLawspert aining todifferentaspectsof	Yes
	environmentalmanagement? Doesyourinstitutehaveanyrulestoprotecttheen	Yes, there are some rules like banned single Their Environmental Policy in
	· ·	cludesawarenessand
	Doeshousekeepingscheduleinyour campus?	Yes,Swachata Bharatine
	Arestudentsandfacultiesawareofenvironment alcleanlinessways?IfYes	Yes, Periodically pollutionreduction, plantation, energy conservationawareness campaigns carrie
	Explain	doutby
	DoesImportantDaysLikeWorld EnvironmentDay,EarthDay,andOzoneDa	Yes
	yetc.eminentinCampus?	Yes,Swachata BharatAbhiyanbystudents
	DoesInstituteparticipatedinNationaland LocalEnvironmentalProtectionMovement?	atcampus.
	DoesInstitutehasany Recognition/certificationfor environmentfriendliness?	No
	DoesInstituteusingrenewableenergy?	Yes
	DoesInstitutionconducta green/environmentalauditofitscampus?	Yes, This is first environmental audit done By the College.
	Hastheinstitutionbeenaudited/accreditedby any other agency such as NABL,NABET, TQPM,NAACetc.?	No

pitiativesforEnvironment

6	T	RenewableEnergy	
		Riodiyo	Yes the Solar power plant installed in an Institute. The solar plant produces 300kWh hours in a month
	· Mark	TreePlantationDrives TwoDrivesAnnuallyaswellasEveryGuest ishonouredbyTreePlantationatCom	Wehavelushgreencampuswhich Provideshabitattovariousspecies. Yes,periodicallytheplantationdrivesbystudent sandstaffofcampus.
	524	4unitsofRainWaterHarvestingSystem. PollutionReductionPersonalVehicles(Students	Yes,100%rechargeoftherainwater
	6	allowedatcampus EWasteManagement	ReductioninAirPollutionthroughve hicularemission.
		Collectionofe-waste	Dump into specific pit ,collected by garbage collector or Recycle through specific methods.

recommendations

- FormationofEnvironmentPolicyandcommunicatedtoallfacultiesandotherstaffmember
 s.
- EnvironmentalMonitoringi.e. (AmbientAir Quality monitoring, StackMonitoring ofDG sets, Water monitoring need to be conducted by A.P. State Pollution Control Board, approvedlaboratory with frequency of six months)
- Reductioninuseofpaperworkbygodigitalsystem.
- WaterMetershouldbeinstalledatinstituteformonitoringofwaterconsumptionforlandscape.
- Increase in Environmental promotional activities for spreading awareness at campus.
 Aspractically feasible avoid use of personal vehicles inside the campus

Conclusion

Thisauditinvolvedextensiveconsultationwithallthecampusteam,interactionswithkeypersonnel onwiderangeofissuesrelatedtoEnvironmentalaspects.An Indira Gandhi Government College, PandariahasEnvironmentalCommitteefor sustainableuseof resources. Overall60% of the campus isfor landscaping. The audit has identifiedseveral observations for makingthe campus premise more environmental friendly. The recommendations are also mentioned withobservations forcampusteamtoinitiateactions.

Theauditteamopinesthattheoverallsiteismaintainedwellfrom environmentalperspective. There is no major observations but few things are important to initiate urge ntly are wasteman agement records by monthly inventory of hazardous waste, rainwater harvesting recharge; water balance cycle and periodic inspection of building shouse keeping and environment policy.

Summary of Environment Audit

The Environment Society of, The institute, aims to spreadawareness amongst students regarding the natural environment that they are a part of Indira Gandhi Government College and

theimpactoftheireverydayactionsonit. Weaimtoprotect the environment by spreading awareness to save energy, water, reducing use of disposable plastics, promoting reusable materials, planting saplings, etc. We believe that better world is not only within reach, but is being built today. We conduct environment friendly events which are not only intellectual, but also interactive and fun to attend. These include workshops, tree plantation drives, rallies, and online awareness campaigns, competitions such as Slam Poetry, Poster Making-

onlineandoffline and so on. The Society has also taken pride in being eco-friendly in every little waypossible, starting from our paper free, online councile lections.

The green club focuses on utilizing the power of social media platforms for spreading awarenessregarding environment conservation and protection. It has an active facebook and Instagrampage on which all the events of the society and environment related posts are uploaded time to time.

Approximately 33000 people the reby creating awareness among stal arger community.