K. K. Das College

GRH – 17, Baishnabghata – Patuli

Kolkata – 700084

West Bengal

India



CRITERION VII Institutional Values and Best Practices

Key Indicator

7.1. Institutional Values and Social Responsibilities

7.1.3 Green Audit/Environmental Audit Report from recognized bodies



SSR 2024

Green Audit Report (2023-24) of K. K. Das College



GRH-17, Baishnabghata-Patuli, Garia,

Kolkata - 700084

Email- kkdascollege@gmail.com

Dr. Ramkrishna Prasad Chakraborty Principal K. K. DAS COLLEGE Garia, Kol-84

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ষাদ্বপুর বিশ্ববিদ্যালয় কলকাতা-৭০০০৩২, ভারত



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*JADAVPUR UNIVERSITY KOLKATA-700 032, INDIA

Preamble: K K Das College initially conceptualized in 1964 as K K Das College of Commerce situated in Patuli, Garia is an admirable College. With student strength of nearly 1325, it is very much vibrant in nature. With a very much Energetic Principle and Dedicated Faculties and Staffs, the College is well equipped and nicely set to do much better in coming days. Rooms across the College are properly maintained. Toilets are observed to be hygienically clean and properly utilized. Students generally are from middle class and lower middle class background; some of them are first generation learner. The College thrives with appropriate vision and mission; develop students as a complete human being with skills and knowledge for lifelong learning. With this back drop the college authorities approached the undersigned to complete Energy and Green Audit required under NAAC framework for accreditation purpose. The undersigned visited the College several times and inculcated the Basic Requirements and Significance of Energy and Green Audit initially to the Principal and then to the Faculties and Staffs all of whom are observed to be knowledge thirsty and very much cooperative. It is observed that rationale of Energy and Green Audit has now been transmitted to the ever joyous students from their beloved teachers which the undersigned believes will be one of the best practice to become responsible Future Citizen, New Initiatives as regards common people around the College are being made and as a whole skill development, job oriented Short Term Courses are being planned. The undersigned is very much optimistic about the future of the K K Das College which will definitely prosper inside a futuristic Resilient and Sustainable society.

Energy Audit Report

- 1. After persuasion, now it is observed that Energy Saving Policy Document has been forwarded to the competent authority and permission has been obtained.
- 2. Now it is observed relevant direction for switch off electrical appliances when not in use are pasted in the appropriate switchboards and areas.
- 3. It is observed now that energy conservation plans and green initiative plans have been discussed with the students and other stakeholders. Further to note Governing Body of the college has been apprised of such initiatives and necessary resolutions have been taken in the Governing Body.

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দরবার্তাঃ (৯১)-০৩৩-২৪১৪-৬৪১৪/২৪১৩-৭১২১

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- 4. Energy Volunteer Team has been made comprised of Faculties, Staffs and Students.
- 5. Single Line Diagram for electrical wiring for the whole college was directed to be made but not yet done.
- 6. Analysis of the Electricity Bills was requested to be made initially. It is now observed that such analysis has been provided. The Unit consumptions have been observed to be increased roughly from an average value of 2000 Unit in 2017 to 3000 unit during 2023 signifying excellent holistic developments. But the analyzed data and available papers are interesting to investigate. It is observed that there were some lacuna on parts of the college authorities to initiate energy conservation plan as regards Electricity consumption was concerned may be due to monetary involvements. But in later years energy efficient LED bulbs were purchased systematically to minimize Electricity Bills and long term systematic energy use planning is in place. (Annexure 1, Annexure 2)
- It is observed that electrical purchase receipts are properly maintained by the college as required for energy audit.
- Upon request, the college authority has provided total number of Light, Fans, Computer, Printer, Printer, Computer, Printer, Computer, Printer, Computer, Printer, Computer, Printer, Computer, Printer, Printer, Computer, Printer, Printer, Printer, Printer, Printer, Printer, Printer, Printer, Printer, Pri
- 9. It is now observed that a sketchy systematic plan for replacement of old electrical energy conservation appliances is put forward. The auditor is of the opinion that the systematic plan is connected to fund inflow; the Governing Body of the K K Das College may kindly take necessary appropriate steps for planned replacements so that monthly energy bill can be made comparatively lower. (Annexure 4)
- 10. The energy auditor is of the opinion that a VFS driven lift should be there inside the college for easy movements.

C Prof. Niladri Chakraborty, DIC (Imperial), PhD(London) Department of Power Engineering adayour University Salt Lat

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Augi Gross, PhD (JU), FIE Cartilled Energy Auditor (EA 7268), Bureau of Energy Efficiency (BEE), ingr Conservation Building Code Master Trailing, (BE

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- 11. It is reported that One Gas Cylinder (LPG) per month is generally used in canteen for students' food preparation. Apart from that Induction Cookers are used.
- 12. It is now reported that for a Solar Power System considering around 5000 Sq.Ft. area to be shed free at roof top, a 30 KW roof top solar system has been proposed to the Governing Body of the College
- 13. It is observed the energy footprints for most of the individuals of the college has been documented as regards commuting to the K K Das College is concerned.
- 14. It is observed that college authority is planning to replace presently running ceiling fans by energy efficient BLDC fans.
- 15. Connectivity of the electrical appliances to the electrical bill has to be made by the authority based on the hour of use. It is observed to be not done yet.

akra/onty C 7/3/24 Prot. Niladri Chakraborty, DIC (Impenal), PhD(Lon. Department of Power Engineering vpur University Salt Lake Campus - 700 108

Avijit Ghoeh, PhD (JU), FIE Certified Energy Auditor (EA 7260), Bureau of Energy Efficiency (BEE), Energy Conservation Building Code Master Trainer, (BEE)

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Cons	<u>umer No. 052</u>	82038011				
Year	Month	Load	Units	Net	Remarks	
		(kva)	Consumed	Amount		
	January	17.6	1051	11300.00		
1	February	17.6	2767	29410.00	Reading for Billnot done for January	
1	March	17.6	2430	25880.00		
1	April	17.6	2565	27310.00		
2017	May	17.6	2211	23580.00		
1 2	June	17.6	1926	20570.00	due to summer recess	
18	July	17.6	2158	22800.00		
	August	17.6	2343		24970 August & October	
	September	17.6	2761	29210.00		
	October	17.6	2443+3087	81850.00	bill for August & October 17 paid together	
	November	17.6	1985	21460.00		
	December	17.6	1881	19900.00		
	January	17.6	2174	22980.00		
	February	17.6	2631	27800.00		
	March	17.6	2619	27430.00	01200.00	
	April	17.6	3010		31520.00	
6	May	17.6	3010+2832	61720.00	bill for April & May paid tegether	
Ē	June	17.6	3064	32400.00		
18	July	17.6	3104	32500.00		
	August	17.6	3944	41290.00		
	September	17.6	3955	42110.00		
	October	17.6	3173	33300.00		
	November	17.6	372	3760.00	college was closed due to puja vacation	
	December	17.6	1949	20430.00		
	January	17.6	2174	22780.00		
1	February	17.6	2631	27560.00		
	March	17.6	2547	26680.00		
	April	Extension	n of Load 10.00KV	V, Contract D	emand (KVA): 11.79 Rs. 132885/-	• ~
1	April	17.6	3272	34260.00	dilla A	13/2029
6	May	21.2	3564	37410.00	91 Julius	iip)
12	June	21.2	2718	28570.00	Avijit Ghosh, PhD (JU)	FIE
Ñ	July	21.2	3679	38610.00	Certified Energy Auditor (E	A 7260),
	August	21.2	3593	37710.00	Bureau of Energy Efficience	(BEE),
1	September	21.2	3955	41500.00	inergy Conservation Building Code Mas	er trainer, (DEL)
1	October	21.2	3464	36370.00		
1	November	21.2	0	550.00		
1	December	21.2	980	10550.00	green bill due to not paid November 19 bill	
-			Nu n.	01 1	- Josty 11	
	Y GRH	Colle	Prof. Niladri Chak Departu	raborty, DIC nent of Powe	(Inperial), PhD(London) r Engineering	
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CESC Electricty Consume

Re	F.	No	
~\-		- 1	

Annexure - 1, Energy 20

Consu	Consumer No. 05282038011				
Year	Month	Load (kva)	Units Consumed	Net Amount	Remarks
	January	21.2	2465	25910.00	
	February	21.2	1707	17980.00	
	March	21.2	3180	33380.00	
	April	21.2	3144	33000.00	
-	May	21.2	2391	25130.00	
33	June	24.9	3634	38220.00	
20	July	24.9	3614	38010.00	
	August	24.9	3485	36660.00	
	September	24.9	3383	35600.00	
	October	24.9	1975	20810.00	
	November	24.9	1674	17740.00	
	December	24.9	1572	16670.00	

Avijit Ghøsh / PhD (JU), FIE

Avijit Grøsh/ PhD (JU), PIE Certified Ehergy Auditor (EA 7260), Bureau of Energy Efficiency (BEE), nergy Conservation Building Code Master Trainer, (BEE)

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malor 7/3/24 eron, Niladri Chakraborry, DIC (Imperial), PhD(London)

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Annexure – 2, Energy

Long term systematic Planning

- 1. From 2015 Damaged Bulbs were replaced by CFL lamp.
- 2. From 1018 Tub lights and Bulbs were replaced by LED bulbs and Tube.
- 3. AC servicing is done twice in a year to reduce electrical consumption and enhance the efficiency and longevity of ACs.
- 4. Water tank are cleaned twice in a year.
- 5. Drinking water is under AMC and condition of drinking water is quite good as per their report.
- 6. Air condition is alarming in kolkata so the same condition in our College.
- 7. Clean campus drive is appreciated by other HEI.
- 8. Green imitative is a long term process started from 2015 and continuing still.
- 9. One switch operated system for rooms started from 2022 to reduce electrical consumption.

10. Roof top solar plant will be installed after completion of 4th floor. (2026-13/2024

Avijit (Shosh, PhD (JO2027). Certified Energy Auditor (EA 7260). Bureau of Energy Efficiency, (BEE) nergy Conservation Building Code Master Italier, SEE arden will be made in future probably in the year 2026-2027. Inergy Conservation Building Code Master Italier, SEE arden will be made in future probably in the year 2026-2027.



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Annexure - 3, Energy Date20 Ref. No. List of Electrical Devices for Energy Audit SI. No Item Name Qnty AC 3 star 12 1 1 2 **Biometric Device** 3 Calling Bell 3 26 CCTV 4 **Ceiling Fan** 141 5 44 6 Ceiling LED 7 Computer 82 8 Exhaust Fan 6 1 9 Generator Induction Oven 2 10 11 7 Laptop 12 LED Bulb 30 13 Microwave oven 2 3 **Pedestrial Fan** 14 Photocopier Machine 3 15 9 16 Printer 17 Projector 18 18 Refregerator 1 7 19 Scanner 20 Tube Light 40w 5 21 Tube Light LED 145 osh, PhD (JU), Certified Energy Auditor (EA 7260) 2 TV Bureau of Energy Efficiency (BEE3 UPS 19 nergy Conservation Building Code Mast 24 Wall Fan 8 25 Water Pump 1 26 Water Purifier 5 roi. Niladri Chakraborty, LIC (Imperial), PhD(London) Department of Power Engineering Nila Das Prinicpal Jadavpur University Salt Lake Campus K.K. DAS COLLEGE Kolkata - 700 106 GRH-17, Baishnabghata Patuli Kolkata-700 084 Dr. Ramkrishna Prasad Chakraborty KKDC/SSR 2024/7.13 Principal

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Ref. No.

Date20

Annexure – 4, Energy

Systematic Plan for replacement of old Energy Consuming Appliances of K. K Das College

1. Year - 2024

6 ACs, 30 Ceiling fans, 5 tube light 40w, 4 wall fans, 1 water pump, 20 computer, are planned to be replaced, provided money is available from the college authority.

2. Year - 2025

4 ACs, 20 Computers, 3 exhaust fans, 1 microwave oven, 4 printers, 8 projectors, 4 wall fans are planned to be replaced, provided money is available from the college authority.

3. Year - 2026

2 ACs, 50 Ceiling Fans, 20 computers, 3 exhaust fans, Energy efficient generator, 3 Pedestal Fan, 1 photocopier machine, 5 printers, 5 projectors are planned to be replaced, provided money is available from the college authority.

4. Year - 2027

30 ceiling fans, 1 induction oven, 1 refrigerator, 3 scanner, 3 water purifier are planned to be replaced, provided money is available from the college authority.

5. Year - 2028

30 ceiling Fans, 17 computers, 1 induction oven, 1 photocopier machine, 5 projector, 4 scanner, 2 water purifier are planned to be replaced, provided money is available from the college authority.

However parallel to the developments of the college, the authority pledgesto procure all Energy Efficient



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K K Das College has attempted to remain Green as evidenced from it Systematic Tree Plantation across the College Boundary. Furthermore the Art Works at the College Boundary made by the Students are praiseworthy. With the requirement of Green Audit for NAAC, the following observations are made.

Green and Environment Audit Report

- 1. It is observed that regular cleaning of the underground water storage facility is done.
- 2. The Green auditor is of the opinion that through there exist a small water harvesting facility, it should be augmented with proper design so that utility of such facility can be thoroughly realized.
- **3.** It is observed now that several varieties of plants are visible inside the K K Das College Campus. List of such plants with their scientific name has been provided (Annexure 1, Green Audit).
- 4. It is observed now that several varieties of creatures are visible inside the K K Das College Campus. Scientific names of such are now prepared. (Annexure 2, Green Audit).
- 5. The Green Auditor is of the Opinion that there exists ample scope to go for Medicinal Plant Garden inside the Campus. The College Authority has been advised for to go for a Medicinal Plant Garden. (Annexure 3, Green Audit, List of medicinal plants to be prepared and placed to G.B)
- 6. It is observed that hot water in the canteen is environmentally disposed of after proper cooling.
- 7. It is observed that Air quality inside the college is more or less same that of the adjoining State Highway but it is very much alarming, with high AQI sometimes at 226. The college authority has been advised by the Green Auditor to initiate steps to minimize Suspended Particulate Matter inside the college by arresting such by creating herbal plant networks across the college windows. Further attention is sought from the college authority to device scopes of minimizing PM 10, SO₂, NO₂, CO



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- 8. It is found that Segregated Waste Disposal Systems are working
- 9. It is also observed that E-waste disposals Systems are in place.
- **10.** No Chimney for Combustion Gas Disposal is observed. The K K Das College authority is advised to set up a chimney system to vent out gases from the Canteen
- 11. Policy documents regards Green Campus and Plastic free campus is available (Annexure 2, Green Audit)
- 12. Bills of manual labour of tank cleaning and water conservation are made available to the auditor
- 13. Beyond the campus environmental promotions by the college such as tree plantation, dengue prevention with Kolkata Municipal Corporation is distinctly visible. It is observed that the College Authorities has initiated the process of Water Harvesting inside the College. Though the attempt is trivial but deserves special recognition. It is advised to go for proper Water Management Harvesting Facilities to recycle water inside the K K Das College Campus.
- 14. Upon repeated request Drinking water sampling data could not be obtained. It is advised to go for such data for analyzing Bacterial and Microbial presence inside the water if any as well as for dissolved salts harmful to human health. However a sketchy Aquaguard service data indicating TDS count of 201 is available.

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Plants Identified inside the College Campus by the Department of Botany, Vijaygarh Jyotish Roy College on 15.01.2024

SI. No.	Scientific Name	Family	Local name of the plant	Number of Plants
1.	Sanseviera Trifasciata	Asparagaceae	snake plant or mother-in- law's tongue,	32
2.	Liebgis Sansevaria	Asparagaceae	Snake plant	27
3.	Aglaonema sp	Araceae	Chinese evergreen	6
4.	Barleria prionitis	Acanthaceae	Kanta jati	1
5.	Codiaeum variegatum	Euphorbiaceae	Garden Croton	1
6.	Rhychosia viscosa	Solanaceae	Sticky stoutbean	1
7.	Catharanthus roseus	Apocynaceae	Nayantara	1
8.	<i>Ixora</i> sp	Rubiaceae	Rangan	15
9.	Nyctanthes Arbor-tristis	Nyctanthaceae	Shiuli	2
10.	Aloe barbadensis	Liliaceae	Ghritakumari	15 I. AAQ
11.	Tabernaemontana sp	Apocynaceae	Tagar Avijit	Ghosh, Pho (JU), FIE
12.	Jasminium sp	Oleaceae	Jasmine Bureau o Energy Conservati	Energy Auditor (EA 726) Energy Efficiency (BEE on Building Code Master Train
13.	Atrocarpus sp	Moraceae	Kathal	1
14.	Hibiscus rosa-sinensis	Malvaceae of Niladri Chakraborty,	DIC (Imperial), PhD(London) 7/3	6 2 y
onven	or, Eco-Club	Jadavpur Universi Kolkata	ty Salt Lake Campus - 700 106	124
1 K. K. O.	College +	N. Mnorschi 1 IQAC Co-ordinat K. K. Das Colleg RH-17, Baishnabghat Garia, Kolkata - 700	or e Dr. Ramkrish a-Patuli K. K. D 0884	Mon na Prasad Chakraborty rincipal AS COLLEGE ria, Kol-84

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Dr. Ramkrishna Prasad Chakraborty Principal K. K. DAS COLLEGE Garia, Kol-84

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15.	Bouganvillea glabra	Caryophyllaceae	Kagaj ful	1
16.	Coleus blumei	Labiatae	Coleus	4
17.	Andrographis Paniculata	Acanthaceae	Kalmegh	4
18.	Nerium indicum	Apocynaceae	Karabi	4
19.	Murraya oenigii	Rutaceae	Curry leaves	1
20.	Philodendron sp	Areceae	Money plant	1
21.	Carica papaya	Cucurbitaceae	Papaya	1
22.	Cycas sp	Cycadaceae	Cycas	2
23.	Dracaena sp	Asparagaceae	Dragon tree	2
24.	Ocimum sanctum	Labiatae	Tulshi	5
25.	Azadirata indica	Meliaceae	Neem	1
26.	Areca sp	Palmae	Betel palm	3
27.	Syzygium cumini	Myrtaceae	Jamun	1
28.	<i>Thuja</i> sp	Gymnosperms	Cedar	3
29.	Delonix regia	Fabaceae	Krishnachura	3 1 400:-
30.	Anthocephalus chinensis	Rubiaceae	Kadam Avijit Gh	1 2029 1 05h. Php (11) FIF
31.	Psidium guajava	Myrtaceae	Peyara Bureau of E	ergy Auditor (EA 7260), nergy Efficiency (BEE),
32.	Annonus squamosus	Annonaceae	Sitaphal	1
33.	Swietenia macrophila	Maliaceae	Mehagani	1
	Prof. N	Department of Power	(Impenal), PhD(London) 13/21 er Engineering	
mueno	22101/24 Dr, Eco-Club	Jadavpur University Sa Kolkata - 70	alt Lake Campus 00 106	2/01/24 2
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34.	Euphorbia tirukali	Euphorbiaceae	Milk bush	1
35.	Trachyspermum ammi	Apiaceae	Ajwain	4
36.	Plumeria alba	Apocyanaceae	Kathgolop	1
37.	Swetenia mehagini	Maliaceae	Mehagini	2
38.	Hibiscus mutabilis	Malvaceae	Sthlapadma	1
39.	Bryophyllum	Crassulaceae	Patharkuchi	1
40.	Ficus elastic	Moraceae	Rubber fig	1
41.	Aurocaria heterophylla	Gymnosperms Aurocariaceae	Christmas tree	2
42.	Ficus sp	Moraceae	Figs	1
43.	Ficus bengalensis	Moraceae	Banyan tree	1
44.	Rhoeo discolour	Commelinaceae	Rhoeo	2
45.	Clitoria ternatea	leguminosae	Aparajita	1
46.	Hylocereus costaricensis	Cactaceae	Dragon Fruit	6
47.	Phoenix sylvestris	Areaceae	Palm,	2

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ch MY ni 7/3/24 0 Prof. Niladri Chakraborty, DIC (Imperial), PhD(London) Department of Power Engineering Jadavpur University Salt Lake Campus Kolkata - 700 106

Convenor, Eco-Club



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Dr. Ramkrishna Prasaa (narravor y Principal K. K. DAS COLLEGE Garia, Kol-84

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Ref. No.

Annexurente2 , Green Audit

List of creatures in K.K.Das College

১৫. কোকিল Cuckoo

(Cuculus clamosus)

১৭. কেন্নো Miilipede

২১. মৌমাছি Bee

২৪. বিডাল Cat

২২. আরশোলা Cockroach

২৫. ভাম বিডাল Civet Cat

১৮. টিকটিকি /গিরগিটি Lizerd

১৯. হলুদ বসন্ত Black hooded oriole

২০. সিপাহি বুলবুল Red whiskered

২৩. কুকুর Dog (Canis lupus familiaris)

২৬. পিঁপড়ে Ant Certified Energy Auditor (EA 7260),

২৬. বোলতা: her granservation Building Code Master Trainer, (BEE)

Avijit Ghosh, pho (JU), FIE

Bureau of Energy Efficiency (BEE),

১৬. ব্যাং Frog

১. কাক। Crow

(Corvus splendens)

২. কাঠবেডালি। Squirrel

(Funambulus palmarum)

৩. সাপ। Snake

8. প্রজাপতি Butterfly

(Rhopalocera,)

৫. ইঁদুৰ rat

৬. মশ্য mosquito

৭. মাচ্ছি Fly

৮. চড়াই পাথি sparrow

(Passer domesticus indicus)

৯. শালিক common myna

(Acridotheres tristis)

১০. (ْ (b) Earthworm

Lumbricus (Genus)

১১. বাবুই পাথি Baya Weaver

(Ploceus philippinus)

১২. কাঠঠোকরা (Woodpecker),

১৩. ঘৃঘু পাথি Doves



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Dr. Ramkrishna Prasad Chakravory Principal K. K. DAS COLLEGE Garia, Kol-84

Prinicpa

K.K. DAS COLLEGE GRH-17, Baishnabghata Patuli Kolkata-700 084

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Plants Identified inside K.K.Das College Campus by the Department of Botany Vijaygarh Jyotish Roy College on February 2023 (Medicinal)

	Serial	Common	Scientific name	Family	11000	
	no.	name	Selentine name	Faimry	uses	
	1,3,4	Krishnachura	Caesalpiniapulcherrima	Caesalpiniaceae	used as fuel. um used agent ,used in textile in industry.	l as a binding dustry, tanning
	2	Kadam	Anthocephaluschinensis	Rubiaceae	Powerful antioxidant., of cancerreduces diseases. Helps in the manageme	reduce the risk risk of heart ent of diabetes.
	5	Kalojum	Syzygiumcumini ·	Myrtaceae	antidiabet	ic
•	6	BilatiJhau	Casuarina equisetifolia	Casuarinaceae	It exerted many phar activities including a antidiabetic, antioxida hypolipidemic, gastr hepatoprotective and pharmacologica	macological ntimicrobial, mt, cytotoxic, oprotective, I many other I effects
	7	Mango	Mangiferaindica,	<u>Anacardiaceae</u>	Mango is rich in vitam and antioxidants, havi effects, improved in digestive and eye hea inflammation of the h stabilize digestive	tins, minerals, ng anticancer munity and lth, to reduce eart. can help e system.
	8	Kalmegh	Andrographispaniculata	Acanthaceae	Antidiabet	ic
	9 Av Certi Bures	Whit Space in riji Ghosh, PhD (J fied Energy Auditor au of Energy Efficie ervation Building Code N	2024 Dracaena sp (FIE (EA 7260)- ncy (BEE) - Che laster Traver, (BEE) (BEE) - Che (BEE) -	Asparagaceae	Dracaena is one of the that help reduce inde levels. Increase humidi releases water vapour	indoor plants oor pollution ty: .: The plant and increases
-			Department of Por	wer Engineering		
	1	WO 3.5	IQAC Co K. K. D GRH-17, Baisl Garia, Kali	Contractor as College habghata-Patuli kata - 700 084	Dr. Ramhrishna Prasad Principa K. K. DAS COJ Garia, Kol-	Chakraborty 1 LLEGE 84
DC/S	SR 202	24/7.13		Dr. Ramkrishna Pr Princ K. K. DAS Garia,	asad Charfaoorty Sipal COLLEGE Kol-84	Page 17 of



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					moisture levels in air, thus, reducing dry-air conditions
	10	Betel nut	Acacia catechu	Fabaceae	The extract of this plant is used to treat sore throats and diarrhoea, also useful in high blood pressure, dysentery, colitis, gastric problems, bronchial asthma, cough, leucorrhoea and leprosy. It is used as mouthwash for mouth, gum, sore throat, gingivitis, dental and oral infections
	11	Palm	Areca sp	Arecaceae	
	12	Shiuli	Nyctanthes arbor-tristis,	Oleaceae	
-	13	Satamuli	Asparagus racemosus	Asparagaceae	roots have been used as a remedy for schistosomiasis and tuberculosis.
	14	Kata mehendi	Durantarepens	Verbenaceae	
	13	Guava	Psidiumguajava	Myrtaceae	
	14	Mehagoni	Swieteniamacrophylla,	Meliaceae	
	15	Guava	Psidiumguajava	Myrtaceae	People use guava leaf for stomach and intestinal conditions, pain, diabetes, and wound healing.
	16	Rangan	Ixora	Rubiaceae	
•	17	Curry leaves	Murrayakoenigii	Rutaceae	Powerful antioxidantmay reduce the risk of cancer., .,reduces risk of heart diseasesHelps in the management of diabetesHelp deal with stomach
	18				annens.
	19 A Cert Bure	Papaya Angle Angle Angle vijit Ghosh PhD (. fied Energy Auditor au of Energy Efficie	Carica papaya 11 <u>3</u> 20 24 U), FIE (EA 7260), nov (BEE),	Caricaceae	Papaya is used for preventing and treating gastrointestinal tract disorders, intestinal parasite infections, and as a sedative and diuretic. It is also used for nerve pains
	inergy Con	servation Building Code I	Master Trainer (BSE) ntjasp	Cactaceae	L
			Niladn	akraborly, DIC unperio	~1 7/3/24
-	2		Depa Jadavpu	rtment of Power Engine Ir University Salt Lake	Seering Campus
		Walter of the second se	N. M. IQAC CC K. K. D CRH-17, Baist Caria, Koll	Kolkata - 700 106 xm Shi ² 3.3.23 p-ordinator as College hnabghata-Patuli kata - 700 084	Dr. Ramkrislina Prasad Chakraborty Principal K. K. DAS COLLEGE Garia, Kol-84
KKDC/S	<pre><kdc 2024="" 7.13<="" pre="" ssr=""></kdc></pre>			Dr. Ramkrishna I Prin K. K. DAS Garia,	rasad/chargaoony Page 18 of 49 cipal COLLEGE Kol-84



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21	Mother-in- law's tongue	Sansevierasp	Asparagaceae	
22	Neem	Azadiractaindica	Meliaceae	neem tree- leaves, flowers, seeds, fruits, roots and bark have been used traditionally for the treatment of inflammation, infections, fever, skin diseases and dental disorders.
23	Mehagini	Swetiniamehagini	Meliaceae	
24	Jackfruit	Artocarpusheterophilous	Moraceae	It is a good source of fiber, help keep bowel movements regular.UlcersDiabetes.High blood pressure.,Skin problems.
25		Abutilon indica	Malvaceae	
26		Achyranthusaspera	Amaranthaceae	
27	RudraPalas	Spathodiacampanulata	Bignoniaceae	
28	Dalim	Punicagranatum	Punacaceae	
29	Chatim	Alstoniascholaris	Apocynaceae	Used for pyorrhea, pimple, urinary diseases, leprosy, fever, cough, cold, worm, asthma, used to treat a variety

convener , Eco Club K K Das College

hD (JU), FIE

Das

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IQAC Co Ordinator

K K Das College

N. Muosti

Principal K K Das College

Dr. Ramkrishna Prasad Chakraborty Principal K. K. DAS COLLEGE Garia, Kol-84

Dr. Ramkrishna Prasad Chakraborty

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3.3.23

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IQAC Co-ordinator K. K. Das College SRH-17, Baistnabghata-Patuli Caria, Kolkata - 700 084

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Annexure - 4, Green Audit-NAAC Accredited

GREEN INITIATIVE AND ENERGY CONSERVATION POLICY DOCUMENT

Clean and Green, plastic free environment is the basic need of the time. With this vision K.K.DAS College gives an extra effort through its policies.

The college has specific policies, which are implemented and guided by our Principal and IQAC. The college believes it is very important for the students to understand the value of the green and clean environment for their future existence. This can help them to grow as a complete human being with a holistic mind. It is the policy of the college to ensure a green initiative venture by the involvement of all stakeholders. The students, teaching staff as well as the non-teaching staff participate regularly for mentioning green zone as well as a green and purified environment .The eco club along with NSS unit of the College who are the green and energy Volunteer take the initiative of optimal conservation of energy maximum green plantation and clean campus plastic free zone.

"Each one plant one" is the quality policy of the College.

To achieve the goal of objectives following steps are taken:

- 1. To organise awareness programmes for the students, faculty and society.
- 2. Conduct an Annual Green and Environmental audit.
- 3. To spread consciousness not only within the college campus but beyond the college campus.
- 4. To attempt and ensure a carbon free environment for the college.
- 5. Protocols are maintained of restrictions of automobiles and plastic free zones

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91419hor 113/2029 Avijit Ghosh, PhD (JU), FIE

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Like the Green initiative K.K. Das college is also very much aware of the energy conservation policies.

There are a group of dedicated energy volunteers ,who are in charge of inspecting the day to day practices of the college. Apart from the volunteers a designated person is appointed for overall inspection.

The objectives of energy conservation policy

- 1. To aware the students and faculties about the importance of energy conservation.
- 2. To conduct the energy audit.
- 3. To turn off the monitor when it is not in use.
- 4. To turn off unnecessary light and use of the day light instead.
- 5. To avoid the use of decorative light
- 6. Phase out of CFL and instead of that use LEDs.
- 7. No smoking zone.

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Green Audit Report (2022-23) of K. K. Das College



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Kolkata – 700084

Email-kkdascollege@gmail.com

Dr. Ramkrishna Prasad Chakraborty Principal K. K. DAS COLLEGE Garia, Kol-84

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1. Introduction:

The results and conclusions and suggestions from a thorough green audit carried out at K.K. Das College are presented in the report that continues. The audit's goals were to evaluate the college's environmental impact and spot areas where sustainability may be improved. The audit addressed topics like journeys, disposal of trash, water use, electricity consumption, and general environmental awareness.

Sl No	Name of the Members	Designation
1	Dr.Ramkrishna Prasad Chakraborty	Principal
2	Dr.Sreyashi Sarkar	Teacher Member
3	Dr. Mohan BirSubba	Teacher Member/ Convenor of Eco Club
4	Mr.Sudip Das	Non-teaching Member
5	Mrs.AratiMajumder	Non-teaching Member
6	Mr. Kishore Das	Non-teaching Member
7	Ranjoy Sarkar	BA Bengali Hons (Sem V)
8	BarshaPramanik	BA General (Sem V)
9	Imraj Mondal	BA General (Sem V)
10	ArpitaNaskar	BA General (Sem V)
11	SarajDey	BA General (Sem III)
12	BristyNaskar	BA General (Sem I)
13	Suman Mondal	BSc General (Sem V)
14	Soumitra Mondal	BSc General (Sem V)
15	Neha Das	BSc General (Sem I)
16	Rajlakshmi Roy	BA English Hons (Sem V)
17	ItuAdhikary	BA English Hons (Sem V)
18	SoumajitMitra	BComHons (Sem V)
19	Rupankar Ghosh	BCom Gen (Sem I)
20	Mistty Roy	BA Hons (Sem I)
21	JyotiSapui	BA Hons (Sem III)
22	Joy Tikader	BA Hons (Sem V)

Energy Volunteer of K. K. Das College (2023-24):

Dr. Ramkrishna Prasad Chakraborty Principal K. K. DAS COLLEGE Garia, Kol-84

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2. Need for Green Audit:

Green audits, also known as environmental audits or sustainability audits, are becoming more and more necessary in today's society for several reasons:

(a) Environmental Impact: Green audits assist in evaluating and reducing an organization's negative environmental impact. They assess variables like energy use, waste production, water use, and emissions, identifying areas that might be improved to lessen environmental harm.

(b) **Regulatory Compliance:**Businesses must abide by the environmental laws and standards that have been set in many nations. Green audits assist businesses in complying with regulations and avoiding fines or other legal repercussions for non-compliance.

(c) Cost Reduction: Green audits can reveal inefficiencies and wasteful behaviours within a company, opening up chances for cost savings. Businesses can apply methods to save operational costs and boost overall efficiency by analyzing energy usage, resource consumption, and waste management.

(d) **Reputation and Stakeholder Expectations:**Consumers and other stakeholders now demand more environmentally conscious company practices. Green audits offer organization transparency and prove its dedication to sustainability, strengthening its reputation and fostering trust among clients, staff, investors, and communities.

(e) **Risk Management:**Environmental hazards can have serious financial and reputational ramifications for firms, including pollution events, regulatory noncompliance, and supply chain interruptions. By evaluating environmental management systems, ensuring sufficient controls are in place, and putting preventative measures in place to deal with possible problems, green audits assist in identifying and mitigating these risks.

(f) Continuous Improvement: Green audits encourage a continuing commitment to sustainability rather than being one-time events. Organizations can see trends, set goals, and implement improvement initiatives by routinely evaluating and

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tracking environmental performance. This iterative process promotes a culture of sustainability and propels long-lasting transformation.

(g) Sustainable Development Goals (SDGs): An international framework for solving urgent environmental and social issues is provided by the Sustainable Development Goals. Organizations can better align their operations with these objectives with the aid of green audits, paving the way for a more just and sustainable future. To evaluate, enhance, and confirm environmental performance, green audits are essential. They allow companies to control risks, comply with rules, cut costs, improve reputations, and support sustainable development.

3. Methodology for Green Audit:

Audits of an organization's environmental performance and practices are known as "green," "environmental," or "sustainability" audits. They entail assessing the company's influence on the environment, resource usage, waste management, and adherence to environmental legislation. Here is a procedure for carrying out a green audit:

- (a) Planning:
- (b) Identify audit team and resources:

(c) Develop an audit plan: Create a detailed plan outlining audit activities, timelines, responsibilities, and communication channels.

(d) Data Collection:

- (e) Gather information:
- (f) Conduct site visits and interviews:
- (g) Review documentation:
- (h) Evaluation and Analysis:
- (i) Assess environmental impacts:
- (j) Evaluate compliance:
- (k) Identify strengths and weaknesses:
- (1) Quantify results:

(m) Reporting:

- (n) Prepare an audit report:
- (o) Communicate results:
- (p) Follow-up and Improvement:

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Dr. Ramkrishna Prasad Chakraborty Principal K. K. DAS COLLEGE Garia, Kol-84

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- (q) Develop an action plan:
- (r) Monitor progress:
- (s) Continuous improvement:

The methodology adopted to conduct the Green Audit of the Institution had the following components.

3.1. On-siteVisit :

The Green Audit Team carried out the five-day field trip. The tour's main goal was to evaluate the Institution's waste management procedures, energy conservation tactics, and other aspects of its green cover. The protocols for sample collection, preservation, and analysis were followed scientifically.

3.2. Focus Group Discussion :

The Eco Club, staff, and management members participated in focus group discussions on various facets of the green audit. Identification of attitudes and awareness towards environmental issues at the institutional and local levels was the main topic of discussion.

3.3. Energy and waste management Survey:

The audit team evaluated the college's waste generation, disposal, and treatment facilities as well as its energy usage pattern with the assistance of teachers and students. A comprehensive questionnaire survey method was used to carry out the monitoring.

4. Target Areas of Green Auditing:

A process for resource management includes a green audit. The actual usefulness of green audits lies in the fact that they are conducted at predetermined intervals and that the results might show improvement or change over time, even though they are individual events. The concept of an eco-campus primarily emphasizes

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the effective use of energy and water, the reduction of waste output or pollution, and economic efficiency.

These indications are evaluated during the "Green Auditing of this Educational Institute" procedure. In order to reduce emissions, obtain a reliable and affordable energy supply, promote personal responsibility, encourage and improve energy conservation, reduce the institute's energy and water use, reduce waste going to landfills, and incorporate environmental considerations into all contracts and services deemed to have significant environmental impacts, Eco-campus focuses on these goals. Water, energy, trash, and green campus are the focus topics for this green audit.

4.1. Energy Consumption:

4.1.1. Lighting:The audit showed that many of the college's lighting fixtures were ineffective and outdated. It is advised to use natural light whenever possible, add occupancy sensors, and swap out conventional light bulbs for energy-efficient LED ones.

4.1.2. Heating, Ventilation, and Air Conditioning (HVAC):

The HVAC systems were discovered to be working less efficiently than necessary. Energy usage can be considerably decreased by switching to energyefficient HVAC equipment, using programmable thermostats, and performing routine maintenance.

4.1.3. Energy Awareness:The college should promote energy conservation practices among employees and students. Campaigns, educational activities, and financial incentives for energy-saving projects can all help achieve this.





AC 3 star		13.25 kW	7hrs/dav
			during
			summer
	12		months
Biometric Device	1	0.003 kW	7 hrs/day
Calling Bell		0.3 kW	7
	3		times/day
CCTV	26	0.01 kW	24 hrs/day
Ceiling Fan	141	10.57 kW	7hrs/day
Ceiling LED	44	2.64 kW	do
Computer	77	7.7 kW	4 hrs/day
Exhaust Fan	6	0.18 kW	Occasional
Generator	1	66 kW	Occasional
Induction Oven	2	2 kW	30 min/day
Laptop	8	0.4 kW	7hrs/day
LED Bulb	30	450 kW	7hrs/day
Microwave oven	2	1.2 kW	30 min/day
Pedestal Fan	3	0.18 kW	2hrs/day
Photocopier Machine	2	1.6 kW	2hrs/day
Printer	9	0.36 kW	2hrs/day
Projector	18	9 kW	1hr/day
Refregerator	1	113 kW	7hrs/day
Scanner	7	0.08 kW	1hr/day
Tube Light 40w	5	0.2 kW	7hrs/day
Tube Light LED	145	2.18 kW	7hrs/day
TV	2	0.14 kW	4hrs/day
UPS	19	570 kW	4hrs/day
Wall Fan	8	0.4 kW	5hrs/day
Water Pump	1	1.5 kW	2hr/day
Water Purifier	5	0.25 kW	7hrs/day

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In many classroom places, we must replace common tubes with lowwattage LED Bulbs instead. We obtain sufficient illumination with lowwattage led tubes. As a result of this, we conserve power.Note: The fact that all of the power switches are on demonstrates that the electrical equipment is being maintained properly.

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Image: Coogle Image: Coogle	
LED Bulb& save energy	Performing routine maintenance on electrical fans. The accumulation of dust and debris can hinder the fan's performance. Regular cleaning of the grilles, blades, and motor housing is necessary to maintain optimal operation, ensure smooth airflow& save energy.

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Silent DG sets are designed to generate a very low level of background noise, just as their name suggests. Their structures are constructed to eliminate virtually all noise and vibrations due to careful design. Because of this, they are not harmful to the environment and are ideally suited for use in residential areas.

4.2. Waste Management:

4.2.1. Recycling: Although there were recycling containers all across the campus, the audit showed that there was a lack of effective separation and information about recyclable products. Increased recycling rates can be achieved by upgrading signage, giving clear instructions and implementing a comprehensive recycling education programme.

4.2.2. Composting: The institution can set up a composting system to handle the organic waste. Composting can help drastically reduce the quantity of garbage dumped in landfills while also producing beneficial compost for campus landscaping and gardening.

Types of waste	Particulars Disposal method	
E-Waste	Computers, electrical Store these in a sepa	arate
	and electronic parts tank, and we can	start
	selling them dire	ectly
	after a certain amound	nt of
	time.	
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Table: Different types of waste generated in the college and their disposal



Plastic waste	Pen, Refill, Plastic water	Items made of plastic
	bottles and other plastic	that are only intended to
	containers, wrappers etc	be used once, such as
		bottles, jars, and
		bags. Encourage people
		to use water bottles and
		other containers that may
		be reused. Establish
		distinct recycling
		containers for plastic
		garbage, and after a
		predetermined period of
		time, we will be able to
		begin selling the
		collected recyclables
		directly.
Solid wastes	Paper waste, Damaged	Reuse after maintenance
	furniture, paper plates,	energy conversion.
	food wastes	Installing composting
		systems on a college
		campus will allow for the
		conversion of discarded
		food into nutrient-dense
		compost that may be
		used in the campus
		landscaping or in
		community gardens.
		Another option is for
		institutions to form
		partnerships with
		farmers in the
		surrounding area to
	XX7 1 · · · 1	collect food waste.
wastewater	washing, urinals,	Soak pits
C	Dathrooms	No.1 'n Too' of
Sanitary Napkin	-	Napkin Incinerators

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4.3. Water Usage:

4.3.1. Water Fixtures:Numerous locations within the college had outdated and ineffective water fixtures, which caused excessive water use. Water resources can be saved by swapping these fixtures for low-flow models and encouraging staff and students to practice water-saving habits.

Water management table:

Water Management Tasks	Frequency	Responsible Party
Routine examination of water	Monthly	Green Audit Working Team
supplies		
Testing for drinking water	Half-yearly	Do
quality		
Awareness of water	Half-yearly	Green Audit Working Team &
conservation		various department
Infrastructure for water	As needed	Caretaker
distribution that needs upkeep		
and repair		
Reporting and analysis of	Annually	Green Audit Working Team &
water use		Caretaker
Learn what causes excessive	As needed	Caretaker
water consumption.		

Tabular data detailing the subject at hand:

Sl No	Parameters		Response		
1	Source of wate	r	Municipality, Underground, Pond (1500		
			sqft) & Rain Harvesting Water		
			Note: The ground's water serves as a		
			drinking water supply for around 4,500		
			people, including students and staff		
			members.		
2	Source of	Drinking	Ground's water		
	Water				

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3	Any treatment for	Nil		
	drinking water	Note: Water purifiers have been		
		installed in 1-2 numbers on each floor		
		and are maintained for 3-4 months		
		afterward.		
4	What is the total number	01 numbers		
	of motors that are used?			
5	What is the total number	2 numbers@ 1000 liters each		
	of water tanks? Capacity	1 number@ 20,000 litre		
	of tank			
6	Tap water	50 numbers		
	Quantity of water	18000 liters/per day		
	pumped every day			
7	Do you waste water, and	No		
	if so, why?			
8	How much water is	100liters/per day		
	required for gardening			
	purposes?			
9	How many water coolers	01		
	are there in total?			
10	Do you have access to	Yes		
	rainwater harvesting?			
11	The number of units	01 number, We have connected a 1000		
	harvested and the total	litre tank with the terrace via a pipe to		
	volume of water	collect rainwater.		
12	Any leaky taps	None		
13	Daily amount of water	Not applicable		
	that is lost.			
14	Is there any kind of plan	Raise public awareness regarding the		
	for the management of	importance of water conservation, the		
	water?	prevention of pollution, and the		
		implementation of sustainable water		
		management practices. Unambiguous		

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		water rights and equitable water	
		allocation regulations should be	
		established to ensure that water is	
		distributed fairly among the many	
		different users.	
15	Have any methods for	Rainwater Harvesting	
	conserving water been		
	implemented?		

5.Transportation:

5.1. Public Transport:The college's carbon footprint can be significantly reduced by encouraging employees and students to use public transport. Sustainable transport solutions can be promoted by offering cheap bus passes, encouraging carpooling, and supporting bicycle infrastructure.

	Students	Employee	Total
Att Das Callege Ashutestpalty. Baistnabeghata Datus Thatus Att Das Callege Ashutestpalty. Baistnabeghata Datus Att Das Callege As	Average numbers over 6 days in a peak session		
Bicycles are being used as modes of	Girls- 20	5	75
transportation for getting to and	Boys-50		
around the college by students, non-			
teaching staff and teaching staff.			

5.2. Electric Vehicles:To aid in the switch to electric transport, the college may choose to invest in infrastructure for charging EVs. Additionally, encouraging the use of electric vehicles through awareness programs and incentives can help lower the emissions produced by on-campus transportation.

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Scooter with an electric motor that is utilized by a member of the college's faculty. There are large numbers of electric motor cycles that both our pupils and our employees use.

6. Overall Environmental Awareness:

6.1. Curriculum Integration:The institution can integrate environmental awareness and sustainability into its curriculum across various subject areas. This strategy will guarantee that students receive instruction and training in environmental stewardship, encouraging sustainable thinking.

Environmental awareness across different subjects	Parameters	Program time
Language Arts	Discuss texts from literature that are in some way connected to topics concerning the environment, such as conservation or environmental advocacy. Compose poetry or essays that argue for the protection of the environment and use persuasion. Conduct research on a variety of environmental topics, then present your findings. Through various awareness programs, they understand the environmental laws and regulations that	Whole year
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	apply on the local, national, and	
	international levels. Discuss the roles	
	that governments, NGOs, and people	
	play in the effort to solve environmental	
	problems. Investigate the	
	environmental concerns from both a	
	historical and cultural point of view.	
Arts	Investigate the causes of climate change	Whole year
	and possible solutions to the	2
	problem. Analyse the impact that human	
	activities have had on different	
	landscapes as well as the distribution of	
	natural resources. Studies should be	
	done on urbanization, logging, and	
	industry's impact on the natural	
	environment. Investigate geographical	
	approaches to resolving environmental	
	issues. such as environmentally	
	responsible land management planning.	
NSS	To enhance the amount of green cover	Whole year
	and fight deforestation, organizing tree-	5
	planting events in local communities	
	and educational institutions is	
	important. To combat littering and to	
	encourage a clean environment, it is	
	important to organize routine clean-up	
	efforts in public places like parks and	
	beaches. To educate both students and	
	members of the general public about	
	environmental issues such as climate	
	change, waste management, renewable	
	energy, and conservation, workshops	
	and seminars should be organized. It	
	should be a priority to create	
	opportunities for individuals to engage	
	with the natural world and develop a	
	sense of ownership over its preservation	
	through participating in hikes and other	
	outdoor activities. To raise awareness	
	encourage a clean environment, it is important to organize routine clean-up efforts in public places like parks and beaches. To educate both students and members of the general public about environmental issues such as climate change, waste management, renewable energy, and conservation, workshops and seminars should be organized. It should be a priority to create opportunities for individuals to engage with the natural world and develop a sense of ownership over its preservation through participating in hikes and other outdoor activities. To raise awareness	

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about environmental issues and
motivate people to take action, you
might usesocial media, posters, and
booklets.



6.2. Student Engagement: A culture of sustainability can be promoted among students by supporting student-led projects, creating environmental groups, and holding awareness events and workshops.

7. Green Campus:

7.1.Floral Diversity:

The following are some actions to take into account when setting up a plantation programme at your college:

-Organise a group of academics, employees, and students who are interested in managing the plantation programme. Assign roles and duties to make the execution go smoothly.

-Consult with local forestry professionals or environmental groups to discover native or adapted tree species that are well-suited to the climate, soil, and goal of the plantation programme. Research and choose suitable tree species.

-To obtain the necessary approvals or permits for planting trees on campus or in the neighborhood, check with the college administration or other appropriate authorities.

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Look into possible funding options, including grants, sponsorships, or collaborations with nearby companies or environmental organizations. This will aid in defraying the price of buying trees, equipment, and other required supplies.
Establish the plantation event's date, time, and venue. Plan the delivery of the trees, tools, and equipment to the planting location. Make sure that safety precautions are in place, including appropriate instruction on planting methods and equipment use.

-Promote the planting programme within the campus community by using various communication channels, such as posters, social media, emails, and word-of-mouth, in order to raise awareness and find volunteers. Encourage everyone to volunteer, including alumni, faculty, staff, and students.

-Volunteers should be gathered at the planting site on the appointed planting day. Give them the equipment, instructions, and direction they need to plant trees correctly. Foster a sense of accomplishment and community pride while fostering teamwork.

-Stress the significance of taking care of the freshly planted trees. This could entail routine weeding, mulching, watering, and pest or disease inspection. To guarantee the long-term well-being and survival of the trees, think about setting up a system for volunteers or staff members.

-After the plantation programme, evaluate the impact and accomplishment of the effort. Keep an eye on the trees' growth and survival rate. To determine areas for improvement and to organize upcoming plantation programmes, collect participant and stakeholder input.

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Encourage participation from the pupils at the institution, faculty, and staff in the upkeep and preservation of the grassland. Volunteer programmes, instructional workshops, and awareness campaigns are all excellent avenues for accomplishing this goal. A wide variety of plant and animal species can thrive on grasslands. A grassland encourages biodiversity on campus by serving as a habitat for various plant and animal species, thereby contributing to the maintenance of ecological equilibrium. Grasslands can remove carbon dioxide from the air and store it in their soil, which contributes to the fight against climate change by lowering overall levels of greenhouse gases.

Various plants in the campus:

One garden is developed in our college premises. Besides a garden, the college also has a wide variety of other plants grown on ground and pots as much as the limited premise of the campus permits.

Plants Identified inside K.K.Das College Campus by the Department of Botany, VijaygarhJyotish Roy College on February 2023.

Serial no.	Common name	Scientific name	Family	uses
1	Krishnachura	Caesalpiniapulcherrima	Caesalpiniaceae	used as fuel. um used as a binding agent ,used in textile industry, tanning industry.
2	Kadam	Anthocephaluschinensis	Rubiaceae	Powerful antioxidant. ,reduce the risk of cancerreduces risk of heart diseases Helps in the management of diabetes
5	Kalojum	Syzygiumcumini ·	Myrtaceae	antidiabetic
6	BilatiJhau	Casuarinaequisetifolia	Casuarinaceae	It exerted many pharmacological activities including antimicrobial, antidiabetic, antioxidant,

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				cytotoxic, hypolipidemic, gastroprotective, hepatoprotective and many other pharmacological effects
7	Mango	Mangiferaindica,	Anacardiaceae	Mango is rich in vitamins, minerals, and antioxidants, having anticancer effects, improved immunity and digestive and eye health, to reduce inflammation of the heart. can help stabilize digestive system.
8	Kalmegh	Andrographispaniculata	Acanthaceae	Antidiabetic
9	Dracaena	Dracaena sp	Asparagaceae	Dracaena is one of the indoor plants that help reduce indoor pollution levels. Increase humidity: .: The plant releases water vapour and increases moisture levels in air, thus, reducing dry-air conditions
10	Betel nut	Acacia catechu	Fabaceae	The extract of this plant is used to treat sore throats and diarrhoea, also useful in high blood pressure, dysentery, colitis, gastric problems, bronchial asthma, cough, leucorrhoea and leprosy. It is used as mouthwash for mouth, gum, sore throat, gingivitis, dental and oral infections
11	Palm	Areca sp	Arecaceae	
12	Shiuli	Nyctanthesarbor-tristis,	Oleaceae	
13	Satamuli	Asparagus racemosus	Asparagaceae	roots have been used as a remedy for schistosomiasis and tuberculosis

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14	Kata mehendi	Durantarepens	Verbenaceae	
13	Guava	Psidiumguajava	Myrtaceae	
14	Mehagoni	Swieteniamacrophylla,	Meliaceae	
15	Guava	Psidiumguajava	Myrtaceae	People use guava leaf for stomach and intestinal conditions, pain, diabetes, and wound healing.
16	Rangan	Ixora	Rubiaceae	
17	Curry leaves	Murrayakoenigii	Rutaceae	Powerful antioxidantmay reduce the risk of cancer., .,reduces risk of heart diseasesHelps in the management of diabetes. .Help deal with stomach ailments.
18	Papaya	Carica papaya	Caricaceae	Papaya is used for preventing and treating gastrointestinal tract disorders, intestinal parasite infections, and as a sedative and diuretic. It is also used for nerve pains
19	Cactus	Opuntiasp	Cactaceae	
20	Mother-in- law's tongue	Sansevierasp	Asparagaceae	
21	Neem	Azadiractaindica	Meliaceae	neem tree- leaves, flowers, seeds, fruits, roots and bark have been used traditionally for the treatment of inflammation, infections, fever, skin diseases and dental disorders.
22	Mehagini	Swetiniamehagini	Meliaceae	

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23	Jackfruit	Artocarpusheterophilous	Moraceae	It is a good source of fiber, help keep bowel movements regular.UlcersDiabetes.High blood pressure.,Skin problems.
24		Abutilon indica	Malvaceae	
25		Achyranthusaspera	Amaranthaceae	
26	RudraPalas	Spathodiacampanulata	Bignoniaceae	
27	Dalim	Punicagranatum	Punacaceae	
28	Chatim	Alstoniascholaris	Apocynaceae	Used for pyorrhea, pimple, urinary diseases, leprosy, fever, cough, cold, worm, asthma, used to treat a variety

Number of Plants in the Campus:

Sl. No.	Scientific Name	Family	No. of
			Plants
1.	SansevieraTrifasciata	Asparagaceae	32
2.	LiebgisSansevaria	Asparagaceae	27
3.	Aglaonema	Araceae	6
4.	BarleriaPrionitis	Acanthaceae	1
5.	CodiaeumVariegatum	Suphorbiaceae	1
6.	RhychosiaViscosa	Solanaceae	1
7.	CatharanthusRoseus	Apocynaceae	1
8.	Ixora	Rubiaceae	15
9.	NyctanthesArbor-tristis	Nyctanthaceae	2
10.	Aloe Barbadensis	Liliaceae	15
11.	Tabernaemontana	Apocynaceae	4
12.	Jasminium	Oleaceae	2
13.	Atrocarpus	Moraceae	1
14.	Hibiscus Rosa-sinensis	Malvaceae	6
15.	BouganvilleaGlabra	Caryophyllaceae	1
16.	Coleus	Labiatae	4
17.	AndrographisPaniculata	Acanthaceae	4
18.	NeriumIndicum	Apocynaceae	4

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19.	MurrayaCoenigii	Rutaceae	1
20.	Philodendron	Areceae	1
21.	Carica Papaya	Cucurbitaceae	1
22.	Cycus	Cycadaceae	2
23.	Dracaena	Asparagaceae	2
24.	Ocimum Sanctum	Labiatae	5
25.	AzadirataIndica	Meliaceae	1
26.	Areca	Plmae	3
27.	SyzygiumCumini	Myrtaceae	1
28.	Thuja	Gymnosperms	3
29.	DelonixRegia	Fabaceae	3
30.	AnthocephalusChinensis	Rubiaceae	1
31.	PsidiumGuajava	Myrtaceae	1
32.	AnnonusSquamosus	Annonaceae	1
33.	SwetoeniaMacrophila	Maliaceae	1
34.	Euphorbia Tirukali	Suphorbiaceae	1
35.	Trachyspermumammi	Apiaceae	4
36.	Plumeria Alba	Apocyanaceae	1
37.	SweteniaMehagini	Maliaceae	2
38.	Hibiscus Mutabilis	Malvaceae	1
39.	Bryophyllum	Crassulaceae	1
40.	FicusElastica	Moraceae	1
41.	AurocariaHiterophylla	Gymnosperms Aurocariaceae	2
42.	Ficus	Moraceae	1
43.	FicusBengalensis	Moraceae	1
44.	RhoeoDiscolor	Commelinaceae	2
45.	ClitoriaTernata	leguminosus	1
46.	Hylocereus	Cactaceae	6
47.	Phoenix Sylvestris	Areceae	2

7.2. Faunal Diversity:

Studying faunal diversity can increase awareness about environmental challenges and conservation's significance. Colleges that are home to a wide variety of animal species may be more likely to adopt environmentally friendly policies and methods of operation to safeguard the campus environment and the people who live there.

Following is a list of various animals (mammals, aves, arthropods, etc) identified in the college campus:

1. Crow

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- 2. Squirrel
- 3. Snake
- 4. Butterfly
- 5. Field rat
- 6. Mosquito
- 7. House Fly
- 8. Sparrow
- 9. Starling
- 10. Earthworm
- 11. Tailor bird
- 12. Woodpecker
- 13. Doves
- 14. Parrot
- 15. Cuckoo
- 16. Frog
- 17. Miilipede
- 18. Lizard
- **19. Black hooded oriole**
- 20. Red whiskered
- **21.** Honey Bee
- 22. Cockroach
- 23. Dog
- 24. Cat
- 25. Civet
- 26. Ant
- 27. Wasp

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8. Conclusion: The K. K. Das College's green audit identifies some areas that should be improved to advance sustainability initiatives on campus. Reduced energy use, better waste management, optimized water use, sustainable transportation options, and raised environmental awareness can all result from implementing the suggested solutions. K. K. Das College can set an example of environmental stewardship for its students and contribute to a cleaner future by implementing these improvements.

Audit Reported and conducted by "Management System Consultancy" Auditor

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MANAGEMENT SYSTEM CONSULTANCY

Authorization:

- National Safety Council Certified (EMS: Registered ID No. 20210701001, OH&S Auditor: Merit Certificate No. 20211013005)
- National Productivity Council Certified (Energy Management Auditor: Certificate No. N95P15C244453/EL/50)
- ISO 14001:2015 (Environment) (CQI-IRCA Delegate ID: 173839, Certificate No. 46957) Lead Auditor Certificate
- ISO 50001:2018 (Energy) (CQI-IRCA Delegate ID: 218048, Certificate No. ENR-00728617) Lead Auditor Certificate
- Certified PG Diploma in Environment and Sustainable Development (En Roll No-BU/13/706432) from Bundelkhand University.
- ISO 17020:2012 Competency certified from QCI (Certificate No. EQUEST/QCI/031023/06-001)
- National Productivity Council Certified (Sustainable Waste Management: Certificate No. N80P12C958750/EL/31)
- National Productivity Council Certified (Water Audit in Industries: Certificate No. N66P30C160424/EL/33)
- Quality Council of India (Solid Waste and Hazardous Waste Management Certification: Cert No. TCB/QCI/110623/02-001)
- United Nations Institute for Training and Research (E-Waste management Certification: Date of issue: 27.09.2021)
- United Nations Institute for Training and Research (Introduction to Green Economy Certification: Date of issue: 29.11.2021)
- United Nations Institute for Training and Research (Sustainable Development in Practice Certification: Date of issue: 11.09.2022)
- Verification of Carbon footprint Introduction cum Implementation TrainingCourse (ISO 14064) from BSI (Cert No. ENR-01361999)

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