



GOVERNMENT GENERAL DEGREE COLLEGE CHAPRA

OFFICE OF THE PRINCIPAL
HIGHER EDUCATION DEPARTMENT
GOVERNMENT OF WEST BENGAL
AFFILIATED TO THE UNIVERSITY OF KALYANI

Vill : Shikra, P.O. Padmamala, P.S. Chapra, Dist : Nadia, PIN : 741123, W.B.

Website : www.chapragovtcollege.org ; E mail : cgcollege2015ku@gmail.com; cgcollege2015@gmail.com

Contact : + 91 7318958511

ESTD : 2013

Memo No.....

Date:.....

DVV Clarification Documents

7.1.3: Quality Audits

7.1.3 HEI provided

- 1) The green audit report prepared within the assessment period
- 2) Energy Audit report highlighting the payload, load distribution, Energy consumption by the electrical appliances etc.
- 3) The Green Audit/ Environment Audit report highlighting the content of Carbon dioxide (Co₂), Sulphur dioxide (So₂) etc. present within the campus and also and the auditing from the government / government recognized organization shall be considered as per NAAC SOP
- 4) Action taken reports and achievement report for clean and green campus initiatives along with Geo-Tagged Photos with caption and dates
- 5) The ample evidences such circular, report, attendance sheet , Geo-tagged photos with date and caption for beyond the campus environmental promotion activities
- 6) Registration certificate of the UK assessment & inspection ltd.


(DR. SUBHASIS PANDA)

Principal

Govt. General Degree College, Chapra
Vill.-Shikra, P.O.-Padmamala
Nadia-741123

Principal

Government General Degree College Chapra

7.1.3: CLARIFICATIONS: Energy Audit, Green Audit/Environment Audit, Action Taken Report & Achievement Reports for Clean & Green Campus initiatives along with Geo-tagged photos & ample evidences for beyond the Campus Environmental Promotional Activities & Registration Certificate of the UK Assessment & Inspection Ltd.



GOVERNMENT GENERAL DEGREE COLLEGE CHAPRA

Vill. Shikra, PO. Padmamala, PS. Chapra, Dist. Nadia-741123

Affiliated to the University of Kalyani

Estd. 30th October 2013

1st Cycle NAAC Accreditation

Website: www.chapragovtcollege.org

Email: cgcollege2015ku@gmail.com

Official Whatsapp Mob. no. +91 7318958511

1ST CYCLE NAAC ACCREDITATION PROCESS-2024

1. CLARIFICATIONS RAISED DURING DVV: 7.1.3.---HEI to provide the ENERGY Audit Report highlighting the payload, load distribution, Energy Consumption by the Electrical Appliances etc.....

CLARIFICATIONS REPLIED: 7.1.3: [pages: 1-23]

Highlighted the payload, Load Distribution, energy Consumption by the Electrical Appliances etc.

ENERGY AUDIT REPORT 2021-2022 & 2022-23



**GOVERNMENT GENERAL DEGREE COLLEGE CHAPRA
VILL. SHIKRA, PO. PADMAMALA, PS. CHAPRA, NADIA-741123**

REPORT PREPARED BY

INSTITUTE OF NATURE RESEARCH AND CONSERVATION [INRC]

&

ENERGY AUDIT TEAM

GOVERNMENT GENERAL DEGREE COLLEGE CHAPRA

TECHNICAL SUPPORT, MONITORING, ASSISTANCE & CERTIFIED

BY

EXECUTIVE ENGINEER (P.W.D.)

NADIA ELECTRICAL DIVISION, KRISHNAGAR, NADIA

&

JUNIOR ENGINEER (P.W.D.)

KRISHNAGAR ELECTRICAL SECTION-II, NADIA



INSTITUTE OF NATURE RESEARCH AND CONSERVATION

SATYEN BOSE ROAD, BASUDEBPUR,
P.O.- BANIPUR, P.S.- SANKRAIL,
DIST.- HOWRAH, PIN- 711304,
WEST BENGAL, INDIA
website: www.inrc-india.org

Mob. No.: 7003988808/
7076154284

Email: inrc.org@gmail.com

Registration Number: 190100239/2023

Reference No:...

Date-12/04/23

GREEN, ENVIRONMENT AND ENERGY AUDIT CERTIFICATE

ACADEMIC YEAR 2022-2023

This is to certify that **Government General Degree College Chapra**, located at Chapra, Nadia-741123, West Bengal, has steadfastly strived to establish a robust and ecologically sustainable environment, dedicated to the preservation of nature and biodiversity. Institute of Nature Research and Conservation (INRC) expresses satisfaction following the successful completion of the Green, Environment, and Energy Audit for the academic year 2022-2023.

This accomplishment has been made possible through the active and moral support extended by the Principal, the IQAC Team, the dedicated teaching and support staff and the enthusiastic student body of Government General Degree College Chapra. Their collective efforts have significantly contributed to the creation of a positive and eco-friendly atmosphere on the campus.

The commitment demonstrated by both faculty and students towards environmental improvement and the conservation of biodiversity is truly commendable. This proactive approach aligns with the highest standards of ecological stewardship, reflecting a genuine dedication to sustainable practices.

This certificate serves as recognition for the outstanding efforts undertaken by Government General Degree College Chapra to foster a healthier and more environmentally conscious campus. We applaud their commitment to creating a positive impact on the environment and encourage the continuation of such admirable initiatives in the future.

PROF SATYAJIT SAHA
PROFESSOR, DEPARTMENT OF
PHYSICS & DEAN,
FACULTY OF SCIENCE,
VIDYASAGAR UNIVERSITY,
MEDINIPUR

Professor,
Department of Physics
and Techno Physics,
Vidyasagar University
Medinipur

DR. SUMIT MANNA
LEAD AUDITOR EMS
UIN: 840180406937
INRC

 **Secretary**
INRC
Satyen Bose Road, Sankrail
Howrah, W.B., 711304

DR. AMIT MANNA
LEAD AUDITOR ENMS
UIN: 292286787454
INRC

 **Vice-President**
INRC
Satyen Bose Road, Sankrail
Howrah, W.B., 711304

Dr. Subhas Chandra Saha
Assistant Professor
Department of Electronics
Vidyasagar University
Medinipur

DR. SUBHAS CHANDRA SAHA
Assistant Professor
Department of Electronics
Vidyasagar University
Bhadrachal-721 152, West Bengal
India



ENERGY AUDIT DATA ANALYSIS, MONITORING, ASSISTANCE & CERTIFIED
BY
EXECUTIVE ENGINEER (P.W.D.), NADIA ELECTRICAL DIVISION, KRISHNAGAR
&
JUNIOR ENGINEER (P.W.D.), KRISHNAGAR ELECTRICAL SECTION-II, NADIA

Observation

Electricity is the main energy source of the college. During data collection for energy audit, we find the actual load distribution among different Dept./Sections inside the college campus. Filament bulbs are completely replaced by LED bulbs to save power consumption in the rural area. Besides this we are going to install photovoltaic cells soon in the campus as an alternate renewable source of energy. Computers, AC and other instruments run in power saving mood. Unnecessary consumption of power is restricted. Most of the plug points are used for low wattage devices and all switches are immediately turned off, whenever they are not operating.

Conclusion

Energy auditing is an effective implement in detecting and perusing a compressive energy management program. A careful audit of any institution gives a road-map with which it can effectively manage the energy consumption at minimum charge as well as saving the electricity. Even this study may prevent the accidental event caused by overload or short-circuit. The given data helps us for this particular precautionary measurement in the future of the organisation.

Signature of Energy Audit Committee:

Name



Signature of the Principal
(Dr. Subhasis Panda)

Principal
Govt. General Degree Colleg.

1. Mr. Sudipta Das

.....Sudipta Das.....

2. Dr. Ayan Bandyopadhyay

.....Ayan Bandyopadhyay.....

3. Dr. Shaikh Safikul Alam

.....Shaikh Safikul Alam.....

THE ENERGY AUDIT REPORT IS CERTIFIED BY

Sushowmik 11.03.2024
Junior Engineer (P.W.D.)
Krishnagar Electrical Section-II
Govt. of West Bengal

BW 11/03/2024
Executive Engineer (P.W.D.)
Nadia Electrical Division
Krishnagar, Nadia



CERTIFICATE

Certificate of Compliance

This is to certify that
of

GOVERNMENT GENERAL DEGREE COLLEGE CHAPRA

P.O.- CHAPRA, DIST - NADIA - 741123, WEST BENGAL, INDIA.

*Has been assessed and found to operate in Compliance
the requirements of following standard:*

ISO 50001:2018

Energy Management System

For the following scope of activities

PROVIDING BACHELOR DEGREE PROGRAMS

Certificate Number: UKAI-DRAFT

Validity of this certificate can be verified at www.ukai.org.uk

Date of Certification
Issuance Date
1st Surveillance Due
2nd Surveillance Due
Re-Certificate Due

XXTH November 2022
XXTH November 2022
XXTH November 2023
XXTH November 2024
XXTH November 2025



UK Assessment & Inspection Ltd. CAB ADDRESS : 63 Maple Road, Surbiton, England, KT6 4AG

Validity of this certificate is subject to annual surveillance audits to be done successfully. This certificate is the property of UK Assessment & Inspection Ltd. and shall be returned immediately on request. UK Assessment & Inspection Ltd. is an independent Systems Products and Personal assessment Body, UK Assessment & Inspection Ltd. is accredited by UG-AC.ORG

ENERGY AUDIT DATA COLLECTION & ANALYSIS BY
EXECUTIVE ENGINEER (P.W.D.), NADIA ELECTRICAL DIVISION, KRISHNAGAR
JUNIOR ENGINEER (P.W.D.), KRISHNAGAR ELECTRICAL SECTION-II, NADIA
ENERGY AUDIT TEAM, GOVT GENERAL DEGREE COLLEGE CHAPRA

SURVEY & DATA COLLECTION: 15th Feb. 2024 till 10th March 2024
REPORT & CERTIFIED BY: 11th March 2024

Observation

Electricity is the main energy source of the college. During data collection for energy audit, we find the actual load distribution among different Dept./Sections inside the college campus. Filament bulbs are completely replaced by LED bulbs to save power consumption in the rural area. Besides this we are going to install photovoltaic cells soon in the campus as an alternate renewable source of energy. Computers, AC and other instruments run in power saving mood. Unnecessary consumption of power is restricted. Most of the plug points are used for low wattage devices and all switches are immediately turned off, whenever they are not operating.

Conclusion

Energy auditing is an effective implement in detecting and perusing a compressive energy management program. A careful audit of any institution gives a road-map with which it can effectively manage the energy consumption at minimum charge as well as saving the electricity. Even this study may prevent the accidental event caused by overload or short-circuit. The given data helps us for this particular precautionary measurement in the future of the organisation.

Signature of Energy Audit Committee:

Name

1. Mr. Sudipta Das *Sudipta Das*

2. Dr. Ayan Bandyopadhyay *Ayan Bandyopadhyay*

3. Dr. Shaikh Safikul Alam *Shaikh Safikul Alam*



[Signature]
Signature of the Principal
(Dr. Subhasis Panda)

Principal
Govt. General Degree Colleg-

THE ENERGY AUDIT REPORT IS CERTIFIED BY

[Signature] 11.03.2024
Junior Engineer (P.W.D.)
Krishnagar Electrical Section-II
Govt. of West Bengal

[Signature] 11/03/2024
Executive Engineer (P.W.D.)
Nadia Electrical Division
Krishnagar, Nadia



Plate 2. Energy Audit Meeting with the Expert and Energy audit Survey at GGDC Chapra: Top-Left: Energy audit team meeting with Principal; Top-Right: Energy Audit team with Energy audit expert, Dr. S. Manna; Below: Energy auditing data collection during Survey at GGDC Chapra. _____

6. Survey Form for data collection:

1. List ways in which the college utilizes energy (Power, digital stove, cooking pot, microwave, LPG, Petrol, fuel, and others).
2. Total of electricity bills for the past pair of years.
3. Overall expenditure for LPG cylinders over the previous year.
4. Spending on petrol/diesel/ others for power generators.
5. Number of CFL bulbs installed and specify their operational lifespan.
6. Energy consumed by each bulb monthly.
7. How many LED bulbs are used within college premises (with detailed operational lifespan)?
8. Number of incandescent (tungsten) bulbs installed?
9. How many fans are installed (with detailed operational lifespan)?
10. Number of air conditioners installed (Hours used/day, for how many days monthly)?
11. Energy consumed by each electrical device monthly? (kwh)
12. Number of computers in use? Specify usage (Hours used/day for how many days monthly).
13. How many photocopiers are installed?
14. Number of cooling devices installed?
15. Energy consumed by each inverter monthly? (kwh)
16. Number of electrical devices used in various laboratories along with their power ratings.
17. How many heaters are used in the cafeteria? (Specify usage, hours used per day for how many days monthly).
18. Are any alternative energy source modules installed? Provide detailed specifications.
19. Are computers and additional devices set to energy-saving mode?
20. Do machines (TV, AC, Computer, weighing scale, printers, etc.) frequently operate on standby mode? If yes, specify the duration in hours.
21. What energy conservation methods does the college adopt?
22. How many panels are displayed to promote awareness of energy conservation?

7. Detailed Energy Audit Methodology: A thorough inspection provides a detailed energy initiative implementation plan for a facility by evaluating all significant energy-consuming systems. This kind of inspection offers the most accurate assessment of both energy savings and costs. It considers the combined effects of all initiatives, taken into consideration the energy consumption of major appliances, and involves meticulous calculations for both energy cost savings and project expenses. In a comprehensive inspection, the energy balance is a crucial component, relying on an inventory of energy-consuming systems, assumptions about current operational conditions, and calculations of energy usage. This estimated usage is then compared with charges on utility bills. Initial site visits and groundwork are essential stages preceding detailed scrutiny. An initial site visit typically lasts a day, allowing the Energy Auditor/Engineer to interact with relevant personnel, familiarize themselves with the area, and assess the procedures necessary for conducting the energy inspection.

8. Source of Energy: Through the enquiry process it is noted that the mostly used energy source is conventional.



Plate 6. Power Supply with proper safety Guidelines at Govt General Degree College Chapra



Plate 7. Top left: Energy Audit data collection by Dr. Ayan Bandopadhyay, HOD, Dept of Chemistry, GGDC Chapra; Top-Right & Below-left: Power supply switches and Source room ; Below-right: Newly installed and set up of EI work during Feb 2024 by the PWD te Nadia Electrical Division, Krishnagar, Nadia.

Energy Cost (Year 2021-22):

Total electricity consumption (conventional) : 22788 U (99%)

Total electricity consumption (non-conventional): 224 U (1%)

Amount paid for conventional energy used : Rs. 3,88,424/-

Consumption of Energy (units) for the period July' 2021 to June' 2022

Month, Year	Energy Consumed (in units) Cust. ID: 950027608	Bill Amount (in Rs.)
JULY' 2021	1531	28788.00
AUGUST' 2021	1497	29214.00
SEPTEMBER' 2021	1515	29234.67
OCTOBER' 2021	1396	28858.73
NOVEMBER' 2021	2303	36946.00
DECEMBER' 2021	1728	31414.00
JANUARY' 2022	1585	30452.00
FEBRUARY' 2022	1430	29402.00
MARCH' 2022	2649	37752.00
APRIL' 2022	2366	35405.00
MAY, 2022	2378	35513.00
JUNE, 2022	2410	35446.00

Energy Cost (Year 2022-23):

Total electricity consumption (conventional) : 22717.0 U (99%)

Total electricity consumption (non-conventional): 229.0 U (1%)

Amount paid for conventional energy used : Rs. 3,87,229.30/-

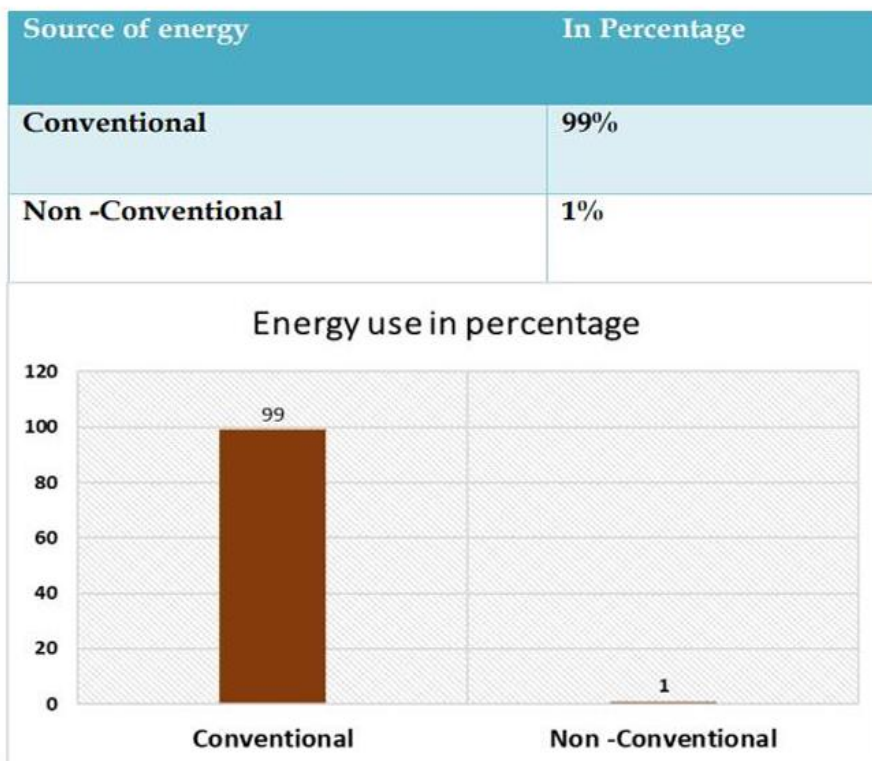
Consumption of Energy (units) for the period July' 2022 to June' 2023

Month, Year	Energy Consumed (in units) Cust. ID: 950027608	Bill Amount (in Rs.)
JULY' 2022	2770	38257.00
AUGUST' 2022	2245	35350.00
SEPTEMBER' 2022	2209	35320.00
OCTOBER' 2022	1535	29852.00
NOVEMBER' 2022	1651	30932.00
DECEMBER' 2022	1966	32771.00
JANUARY' 2023	1742	30540.00
FEBRUARY' 2023	1479	28815.00
MARCH' 2023	1494	29265.00
APRIL' 2023	1587	29847.30
MAY, 2023	1938	32136.00
JUNE, 2023	2101	34144.00

Fossil fuel consumption per year (Approx.)

- Number of LPG gas cylinders used for cooking -20PCs
- Number of LPG used in Laboratories-03PCs

Table 1. Represents the percentage use of conventional and non-conventional uses of energy and its corresponding plot is depicted in Figure 1.



Mode of energy used in college campus (conventional and non-conventional)

For the purpose of Preparing ENERGY AUDIT, after meeting and discussion with GGDC Chapra Energy Audit Committee, Principal applied a Formal Letter to the Executive Engineer, P.W.D.te, Nadia Electrical Division, Krishnagar, Nadia in the month of January 2023. Finally Executive Engineer accepted our request and sent one Junior Engineer to monitor the survey work and data collection along with GGDC Chapra Energy Audit Committee.

Our Energy Audit Committee members, Sri Sudipta Das, Assistant Professor of Physics & IQAC Coordinator, Dr. Ayan Bandyopadhyay, Assistant Professor of Chemistry and Dr. Shaikh Safikul Alam, Assistant Professor of Physics were guided by Sri Sujan Bhowmick, Junior Engineer (P.W.D.), Krishnagar Electrical Section-II, Govt of West Bengal. Our Audit team was also guided by Dr. Sumit Manna, Green Auditor & Assistant Professor of Moyna College in January, 2023 and Jan 2024 respectively.

ENERGY AUDIT of Govt General Degree College Chapra is guided by Sri Sujan Bhowmick, P.W.D. Junior Engineer since 15th February 2024 to 10th March 2024 and CERTIFIED by the Executive Engineer, Sri Rajarshi Moulick, Nadia Electrical Division, Krishnanagar, Nadia.

Energy Audit Team

- 1) Mr. Sudipta Das (Assistant Professor in Physics)
- 2) Dr. Ayan Bandyopadhyay (Assistant Professor in Chemistry)
- 3) Dr. Shaikh Safikul Alam (Assistant Professor in Physics)

Electric connection

We have one meter in our college campus with following meter number.

WBBB0096

Data Collection

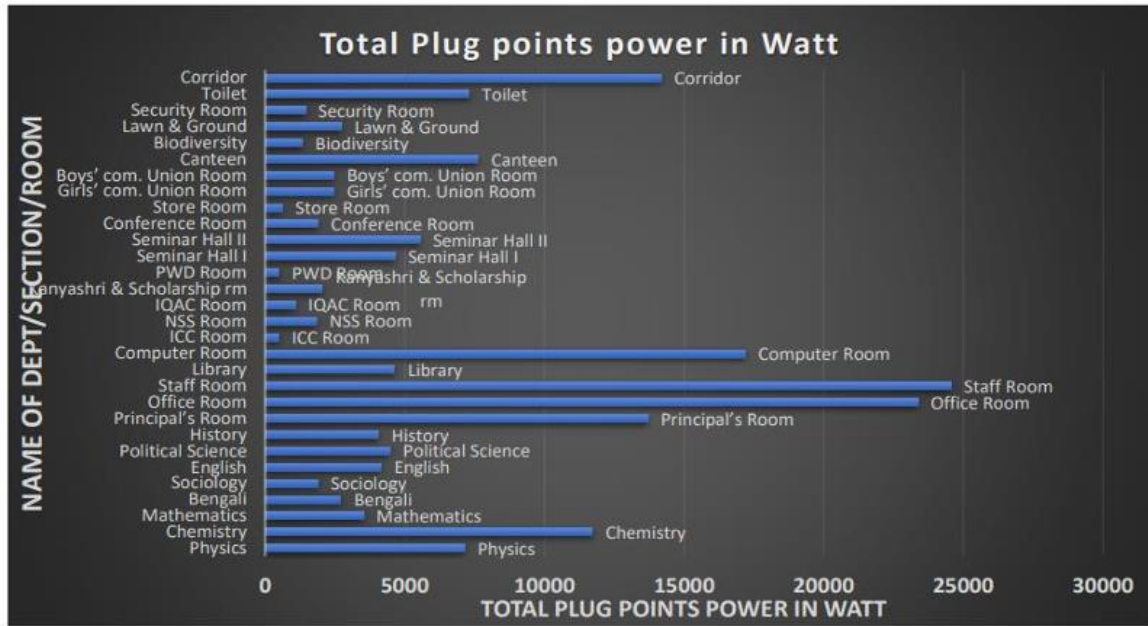
The College Building comprises eight isolated Depts (Physics, Chemistry & Mathematics, Arts classrooms (for five Arts Depts: English, Bengali, History, Political Science & Sociology), Staff room, Seminar room, Conference room, Principal room, Office room, Library, Kanyashree room, NSS room, ICC room, IQAC room, Student's Common rooms, store room, PWD room, canteen, Biodiversity corridors, Toilet, Security room, Lawn & Ground. The energy audit report team has collected all connected loads and plug point loads (room wise) and then calculated the maximum power requirement, maximum energy consumption in a month and so many energy consumption analyses (using bar diagram). The team also analyse the actual power consumption (month wise) and made a comparative study on monthly consumption. Device wise consumption and their comparative are also presented in bar diagram.



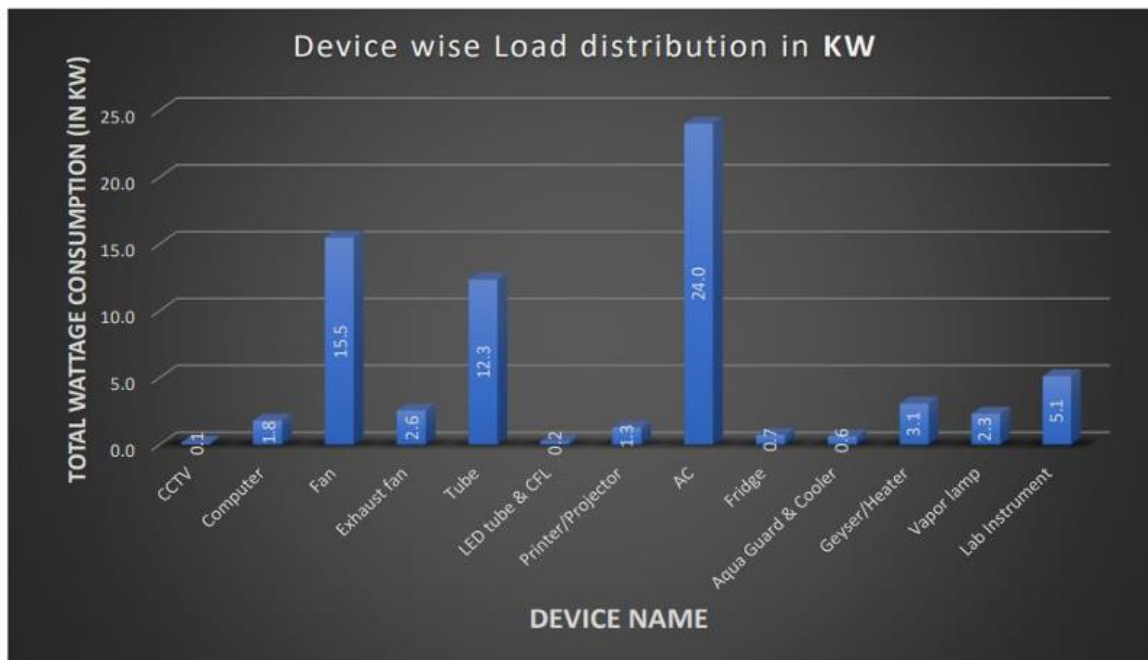
Plate 8. Left: Energy Audit Committee Members meeting with Principal, GGDC Chapra in 5th January 2023; Right: CCTV Camera and Energy Consumption data collection by the Experts.

List of Energy Consuming Sources: (Table Format) [Principal's Room, Principal Office and Department wise]

Dept./ Section/ Room	CC Camera (No.)	Compute r (No.)	Fan (No.)	Ex- Fan (No.)	Tube (No.)	LED tube/ CFL (No.)	Printer/ Projector (No.)	AC (No.)	Fridge (No.)	Aqua guard & Cooler (No.)	Heater/ Geyse r (No.)	Vapor Lamp (No.)	16 Amp Plug (No.)	6 Amp Plug (No.)	Lab Instru ment (No.)	Total Plug points power in Watt	Total Power without plug points in Watt	Total Watt
Physics	1	1	18	0	20	0	0	0	0	0	0	0	2	7	5	2420	4715	7135
Chemistry	1	0	26	0	31	0	0	0	2	0	0	0	4	10	7	4600	7115	11715
Mathematics	1	1	9	0	12	0	0	0	0	0	0	0	2	4	0	2240	1265	3505
Bengali	1	0	12	0	14	0	0	0	0	0	0	0	1	5	0	1300	1405	2705
Sociology	1	0	6	0	7	0	0	0	0	0	0	0	1	3	0	1180	705	1885
English	2	0	15	0	18	0	0	0	0	0	0	0	2	6	0	2360	1780	4140
Political Sc.	1	0	18	0	21	0	0	0	0	0	0	0	2	6	0	2360	2105	4465
History	1	0	15	0	16	0	0	0	0	0	0	0	2	6	0	2360	1695	4055
Principal's Room	3	2	5	0	6	0	1	2	0	0	0	0	8	10	0	8600	5105	13705
Office Room	1	5	7	0	8	0	3	4	0	0	0	0	12	20	0	13200	10165	23365
Staff Room	0	2	7	0	8	0	1	4	0	0	0	0	14	21	0	15260	9310	24570
Library	3	1	18	0	18	0	0	0	0	0	0	0	2	8	0	2480	2145	4625
Computer Room	0	1	6	0	6	0	0	2	0	0	0	0	11	23	0	12380	4810	17190
ICC Room	1	0	3	0	4	0	0	0	0	0	0	0	0	2	0	120	375	495
NSS Room	1	0	6	0	6	0	0	0	0	0	0	0	1	3		1180	665	1845
IQAC Room	1	1	3	0	4	0	1	0	0	0	0	0	0	6	0	360	725	1085
Kanyashri & Scholar. rm.	1	0	6	0	6	0	1	0	0	0	0	0	1	3	0	1180	865	2045
PWD Room	1	0	3	0	4	0	0	0	0	0	0	0	0	2	0	120	375	495
Seminar Hall I	2	1	15	0	16	0	1	0	0	0	0	0	2	10	0	2600	2050	4650
Seminar Hall II	2	0	15	0	22	0	0	0	0	0	0	0	3	10	0	3600	1940	5540
Conference Room	1	0	6	0	7	0	0	0	0	0	0	0	1	3	0	1180	705	1885
Store Room	2	0	4	0	4	0	0	0	0	0	0	0	0	3	0	180	450	630
Girls' comm. Room	0	0	8	0	18	0	0	0	0	0	0	0	1	3	0	1180	1280	2460
Boys' comm. Room	0	0	8	0	18	0	0	0	0	0	0	0	1	3	0	1180	1280	2460
Canteen	0	0	3	1	7	0	0	0	1	1	2	0	4	1	0	4060	3565	7625
Biodiversity	0	0	2	0	3	0	0	0	0	0	0	0	1	1	0	1060	260	1320
Lawn & Ground	3	0		0	0	0	0	0	0	0	0	18			0	0	2715	2715
Security Room	0	0	2	0	3	0	0	0	0	0	0	0	1	3	0	1180	260	1440
Toilet	0	0	1	19	24	22	0	0	0	0	1	0	2	0	0	2000	5300	7300
Corridor	6	0	13	0	32	4	0	0	0	2	0	0	11	7		11420	2760	14180
Grand Total	37	15	260	20	363	26	8	12	3	3	3	18	92	189	12	103340	77890	181230



Bar diagram for Department/Section wise load distribution



Bar diagram for Device specific power consumption

**Calculation of Electrical Load & Consumption: - (Table Format)
[Equipment item wise]:**

SL. No.	Name of the Equipment	Total No. of Equipment	Wattage	Total Wattage	Demand Factor	Max. Demand (Watt)	Max. Demand (KW)
1	CCTV	37	5 - 10	185	0.8	148	0.1
2	Computer	15	150	2250	0.8	1800	1.8
3	Fan	260	70 - 100	18200	0.85	15470	15.5
4	Exhaust fan	20	150 - 250	3000	0.85	2550	2.6
5	Tube	363	40	14520	0.85	12342	12.3
6	LED tube & CFL	26	9 - 22	260	0.85	221	0.2
7	Printer/Projector	8	200 - 300	1600	0.8	1280	1.3
8	AC	12	1500 - 2000	24000	1	24000	24.0
9	Fridge	3	250-275	825	0.85	701	0.7
10	Aqua Guard & Cooler	3	250 - 350	750	0.8	600	0.6
11	Geyser/Heater	3	1200 - 3000	3600	0.85	3060	3.1
12	Vapor lamp	18	150	2700	0.85	2295	2.3
13	16 Amp Plug	92	1000	92000	0.25	23000	23.0
14	6 Amp Plug	189	60	11340	0.5	5670	5.7
15	Lab Instrument	12	200 - 2000	6000	0.85	5100	5.1

Total Wattage = 98237 Watt

Sum of individual maximum demand in KW = 98.237 KW

Simultaneous maximum demand (50% of Total Demand) = 49.119 KW

Maximum Energy consumption one hour per day (KWH) = 49 BOT unit

Maximum Energy consumption five hour per day (KWH) = 245 BOT unit

Maximum Energy consumption for one year (taking 240 working days) = 58800 BOT unit

Maximum Energy consumption for rest 125 days (taking 5% of normal consumption) =

1531 BOT unit

Maximum Energy consumption for one Year = 60331 BOT unit

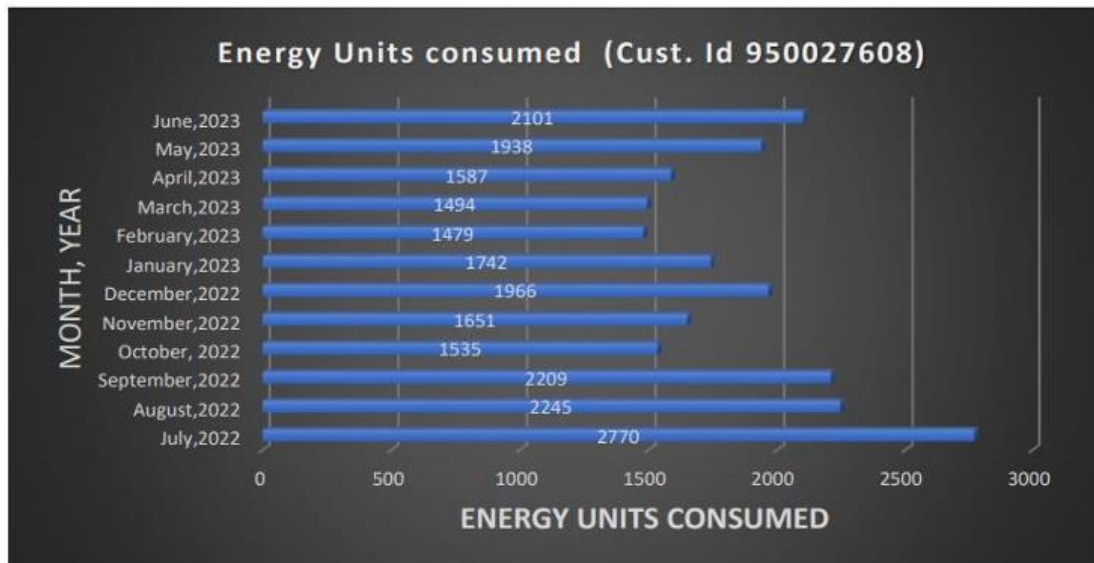
Maximum Energy consumption (average) for one month = 5028 BOT unit

Consumption of Energy (units) in the period July, 2022 to June, 2023 (Table Format):

Month, Year	Energy consumed (Cust. Id 950027608) (in Units)
July,2022	2770
August,2022	2245
September,2022	2209
October, 2022	1535
November,2022	1651
December,2022	1966
January,2023	1742
February,2023	1479
March,2023	1494
April,2023	1587
May,2023	1938
June,2023	2101

Yearly Total Energy units Consumed = 22717 units

Monthly (average) Energy units Consumed = 1893 units



Bar Chart showing the Energy Units Consumption in the different months for the Period- July, 2022 to June, 2023.

Observation

Electricity is the main energy source of the college. During data collection for energy audit, we find the actual load distribution among different Dept./Sections inside the college campus. Filament bulbs are completely replaced by LED bulbs to save power consumption in the rural area. Besides this we are going to install photovoltaic cells soon in the campus as an alternate renewable source of energy. Computers, AC and other instruments run in power saving mood. Unnecessary consumption of power is restricted. Most of the plug points are used for low wattage devices and all switches are immediately turned off, whenever they are not operating.


Conclusion

Energy auditing is an effective implement in detecting and perusing a compressive energy management program. A careful audit of any institution gives a road-map with which it can effectively manage the energy consumption at minimum charge as well as saving the electricity. Even this study may prevent the accidental event caused by overload or short-circuit. The given data helps us for this particular precautionary measurement in the future of the organisation.



Signature of Energy Audit Committee:

Name


Signature of the Principal
(Dr. Subhasis Panda)

Principal
Govt. General Degree Colleg.

1. Mr. Sudipta Das

.....*Sudipta Das*.....

2. Dr. Ayan Bandyopadhyay


.....*Ayan Bandyopadhyay*.....

3. Dr. Shaikh Safikul Alam

.....*Shaikh Safikul Alam*.....

THE ENERGY AUDIT REPORT IS CERTIFIED BY


Junior Engineer (P.W.D.)
Krishnagar Electrical Section-II
Govt. of West Bengal
11.03.2024


Executive Engineer (P.W.D.)
Nadia Electrical Division
Krishnanagar, Nadia
11/03/2024

ENERGY AUDIT DATA COLLECTION IMAGES & OTHER RELEVANT IMAGES



Plate 9. 1st Row left: AC Block Principal Room & Guest Room; 1st Row Right: Principal Room LED Light & Fan. 2nd Row left: Energy consumed by Induction Oven at Canteen; 2nd Row Middle: Inverter at Principal's Room; 2nd Row-Right: Energy consumed by Ground Floor Water Purifier system & CCTV Camera at Principal Room. 3rd Row Left: Computer & Printer at Principal Room; 3rd Row Right: AC at Principal Room.



Plate 10. 1st Row left: Energy consumed by Refrigerator at Canteen; 1st Floor Middle: 2 AC at Teachers & Principal Office Room; 1st Row-Right: data collection at Physics Lab. 2nd Row left: Another 2 AC at Principal Office Room; 2nd Row Middle & Right: Newly installed Power Switch on 1st Floor Corridor by P.W.D. 3rd Floor left & Right: Data collection at Physics Lab.



Plate 11. 1st Row left: Energy consumed data collection at Physics Lab during Practical Work; 1st Row Right: Energy Committee members final meeting with the Principal. 2nd Row: Data Collection by the Convener at Main power Switch, Sajal Dhara and Water purifier at Canteen. 3rd Floor left: Energy Audit seminar at Hall no 1, GGDC Chapra; Right: in front Gate with the external expert, Dr. S. Manna.

RECCOMMANDATION

To reduce energy consumption and management

- Given the esteemed reputation and long-standing presence of the institution, there exists abundant opportunity to bolster energy conservation endeavors and transition the campus towards self-sufficiency. The organization has already taken notable steps in this direction by instituting energy-efficient lighting, fostering stakeholder awareness, and ensuring reliable power backups. Furthermore, adherence to energy auditing best practices, including the proper safeguarding of transformers, generators, and UPS systems through fencing and informative signage, underscores a commitment to safety and sustainability.
- The adoption of sprinkler irrigation for campus upkeep represents a praiseworthy initiative in minimizing energy consumption. Nonetheless, there are additional recommendations to further augment the organization's energy-saving capabilities. Implementing these measures can pave the way for a prosperous future characterized by an energy-responsible campus and sustainable ecological and communal progress for stakeholders in the years to come.

2. CLARIFICATIONS RAISED DURING DVV: 7.1.3.---HEI to provide the GREEN Audit /Environment Audit Report highlighting the content of CO₂ SO₂ etc. present within the Campus and also the auditing from the Government /Govt recognized organization shall be considered as per NAAC SOP.

CLARIFICATIONS REPLIED: 7.1.3:

- i. Provided Green and Environment Audit Report highlighting the content of CO₂, SO₂ etc. present within the campus.

[VIDE PAGE NO 87 to 91 of GREEN & ENV AUDIT REPORT uploaded to our website

LINK:

<https://chapragovtcollege.org/IQAC/Audits/GREEN%20&%20ENVIRONMENT%20AUDIT.pdf>

- ii. Provided the Auditing Certificate from Government Recognized Organization

Provided in the GREEN & ENV Audit Report 1st Page

Also attaching here below.....

GREEN & ENV Auditing Certificate from Government Recognized Organization:- 'Institute of Nature Research & Conservation' is a Govt Recognized Organization with Regd no. 190100239/2023 where University Professors are also attached



INSTITUTE OF NATURE RESEARCH AND CONSERVATION

SATYEN BOSE ROAD, BASUDEBPUR,
P.O. BANIPUR, P.S. SANKRAIL,
DIST. HOWRAH, PIN. 711304,
WEST BENGAL, INDIA
website: www.inrc-india.org

Mob. No.: 7003988808/
7076154284

Email: inrc.org@gmail.com

Registration Number: 190100239/2023

Reference No:...

Date-12/04/23

GREEN, ENVIRONMENT AND ENERGY AUDIT CERTIFICATE

ACADEMIC YEAR 2022-2023

This is to certify that **Government General Degree College Chapra**, located at Chapra, Nadia-741123, West Bengal, has steadfastly strived to establish a robust and ecologically sustainable environment, dedicated to the preservation of nature and biodiversity. Institute of Nature Research and Conservation (INRC) expresses satisfaction following the successful completion of the Green, Environment, and Energy Audit for the academic year 2022-2023.

This accomplishment has been made possible through the active and moral support extended by the Principal, the IQAC Team, the dedicated teaching and support staff and the enthusiastic student body of Government General Degree College Chapra. Their collective efforts have significantly contributed to the creation of a positive and eco-friendly atmosphere on the campus.

The commitment demonstrated by both faculty and students towards environmental improvement and the conservation of biodiversity is truly commendable. This proactive approach aligns with the highest standards of ecological stewardship, reflecting a genuine dedication to sustainable practices.

This certificate serves as recognition for the outstanding efforts undertaken by Government General Degree College Chapra to foster a healthier and more environmentally conscious campus. We applaud their commitment to creating a positive impact on the environment and encourage the continuation of such admirable initiatives in the future.

PROF SATYAJIT SAHA
PROFESSOR, DEPARTMENT OF
PHYSICS & DEAN,
FACULTY OF SCIENCE,
VIDYASAGAR UNIVERSITY,
MEDINIPUR

Professor,
Department of Physics
and Techno Physics,
Vidyasagar University
Medinipur

DR. SUMIT MANNA
LEAD AUDITOR ENMS
UIN: 840180406937
INRC

Secretary
INRC
Satyen Bose Road, Sankrail
Howrah, W.B., 711304

DR. AMIT MANNA
LEAD AUDITOR ENMS
UIN: 292286787454
INRC

Vice-President
INRC
Satyen Bose Road, Sankrail
Howrah, W.B., 711304

Dr. Subhas Chandra Saha
Assistant Professor
Department of Electronics
Vidyasagar University
Medinipur

DR. SUBHAG CHANDRA SAHA
Assistant Professor
Department of Electronics
Vidyasagar University
Howrah-721 102, West Bengal
India



3. CLARIFICATIONS RAISED DURING DVV: 7.1.3.---HEI to provide Action Taken Reports and Achievement Report for Clean and Green Campus Initiatives along with geo-tagged photos with caption and dates.....

CLARIFICATIONS REPLIED: 7.1.3:

- i. Provided Action Taken reports and Achievement Reports for Clean & Green Campus Initiatives along with Geo-tagged photos with caption and dates.

CLEAN AND GREEN CAMPUS INITIATIVES

ACTION TAKEN REPORTS

ATR FOR CLEANING THE CAMPUS:-

- i. Govt General Degree College Chapra took initiatives for Campus cleaning drive since 2018 on regular-basis (15 days interval) through NSS unit.
- ii. NSS Unit awares each student and staff to clean the campus, not thrown the garbages here and there. To aware this work, every Monday they used to aware and every 15 days interval, one Monday, NSS Unit used to clean the campus.
- iii. Several Big Dustbins are kept in front of Main Gate, 2nd Gate, Main entrance of the Academic Block, 2nd Entrance of the Academic Block, and Students Activity Centre for collection of garbages.
- iv. At Each Floor of the Main Academic Building, two Dustbins are kept on each side for collection of garbages.
- v. For better cleaning purpose, Small Dustbins are kept at every corner throughout the Campus for the purpose of keeping garbages like plastic packets, papers, glass bits and others.
- vi. Our Sweeper and Karmabandhu staffs are used to collect these garbages from these smaller dustbins kept at different places in the campus on daily basis except Sunday and holidays. After collection, they used to segregate biodegradable and non-degradable garbages in two different Bigger Dustbins marked as “Biodegradable” & “Non-Degradable”.
- vii. Finally they gather biodegradable wastes into “BIODEGRADABLE PIT/CHAMBER” and Non-degradable Wastes into “NON-DEGRADABLE PIT/CHAMBER” created at a particular site near Students Activity Centre.
- viii. With the help of *Trichoderma* fungus and cow-dung, biodegradable wastes are used to prepare biofertilizers which are used in garden plants.
- ix. Non-degradable wastes like plastics and glasses are taken by a villager of Padmamala at an interval of every 15 days.
- x. Since 2022, we have introduced “BEST CLEANING THINKER AWARD” for the purpose of encouraging students and staff
- xi. Since 2022, we have introduced “CLEANING PARTICIPATION AWARD” for encouraging all students to participate in cleaning.

PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE
CAMPUS



First “BEST CAMPUS CLEANING THINKER AWARD” conferred to Ms. Sabifa Khatun, 2nd SEM Political Science Hons student due to her Campus Cleaning monitoring as NSS student on 31.10.2022

PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE
CAMPUS



**CAMPUS CLEANING AWARD CONFERRED TO NSS Students on
15/08/2018 by NSS Programme Officer [left Puja Khatun, 3rd SEM student,
Sociology; Right: Sajid Saikh, 3rd Sem student, Bengali Hons]**

[NO GEO-TAGGED IMAGES TAKEN]

PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE
CAMPUS




**BEST CLEANING THINKER AWARD CONFERRED TO Ms. KOEL
MALLICK on 30/10/2023, A 3rd SEM ENGLISH Hons Student**

**PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE
CAMPUS**



**CLEANING “PARTICIPATION CERTIFICATE” CONFERRED to Mr.
SARANJIT GHOSH, 1st SEM, B.Sc. Programme**

PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE CAMPUS

GOVERNMENT GENERAL DEGREE COLLEGE, CHAPRA (Affiliated to University of Kalyani)		Shikra, Padmamala, Nadia, WB-741123 Mail id: cgcollege2015ku@gmail.com Web: http://www.chapragovtcollege.org/	
BEST CAMPUS CLEANING THINKER AWARD			
<i>This is to certify that Sri/Ms./Smt./Dr. has been conferred the BEST CAMPUS CLEANING THINKER AWARD - 20 . . . for his/her outstanding performance in campus cleaning initiatives on on the eve of Govt. General Degree College, Chapra Foundation Day Celebration held at Seminar Hall No. 1.</i>			
ADVISOR CAMPUS CLEANING MONITORING COMMITTEE GGDC, CHAPRA	CONVENOR CAMPUS CLEANING MONITORING COMMITTEE GGDC, CHAPRA	NSS PROGRAMME OFFICER GGDC, CHAPRA	IQAC COORDINATOR GGDC, CHAPRA

SAMPLE CERTIFICATE—Best Campus Cleaning Thinker Award

GOVERNMENT GENERAL DEGREE COLLEGE, CHAPRA (Affiliated to University of Kalyani)		Shikra, Padmamala, Nadia, WB-741123 Mail id: cgcollege2015ku@gmail.com Web: http://www.chapragovtcollege.org/	
CERTIFICATE OF PARTICIPATION			
<i>This is to certify that Sri/Ms./Smt./Dr. has actively participated in Campus Cleaning drive in the year Conducted by GGDC-NSS Unit throughout the year. A Certificate of Participation' has been conferred upon him/her on the eve of Govt. General Degree College, Chapra Foundation Day Celebration held on at Seminar Hall No. 1.</i>			
ADVISOR CAMPUS CLEANING MONITORING COMMITTEE GGDC, CHAPRA	CONVENOR CAMPUS CLEANING MONITORING COMMITTEE GGDC, CHAPRA	NSS PROGRAMME OFFICER GGDC, CHAPRA	IQAC COORDINATOR GGDC, CHAPRA

SAMPLE CERTIFICATE—CLEANING PARTICIPATION

PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE
CAMPUS



**CLEANING GLASS BITS FROM PLAY GROUND BY three ALUMNI in
April, 2024**

PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE
CAMPUS



Main Building Backside And Roof top cleaning by Sweeper & Garden Mali in 2022



Campus Cleaning by NSS Students in September, 2019 [no geo-tagged images]

PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE CAMPUS



Campus Cleaning By NSS students on 28/03/2021



CAMPUS CLEANING AWARENESS DRIVE BY NSS UNIT on 09/08/2023

PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE
CAMPUS



CAMPUS CLEANING DRIVE BY NSS UNIT on 23/02/2022



CAMPUS CLEANING AWARENESS SEMINAR Organized by NSS UNIT in
Feb 2018.

PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE
CAMPUS

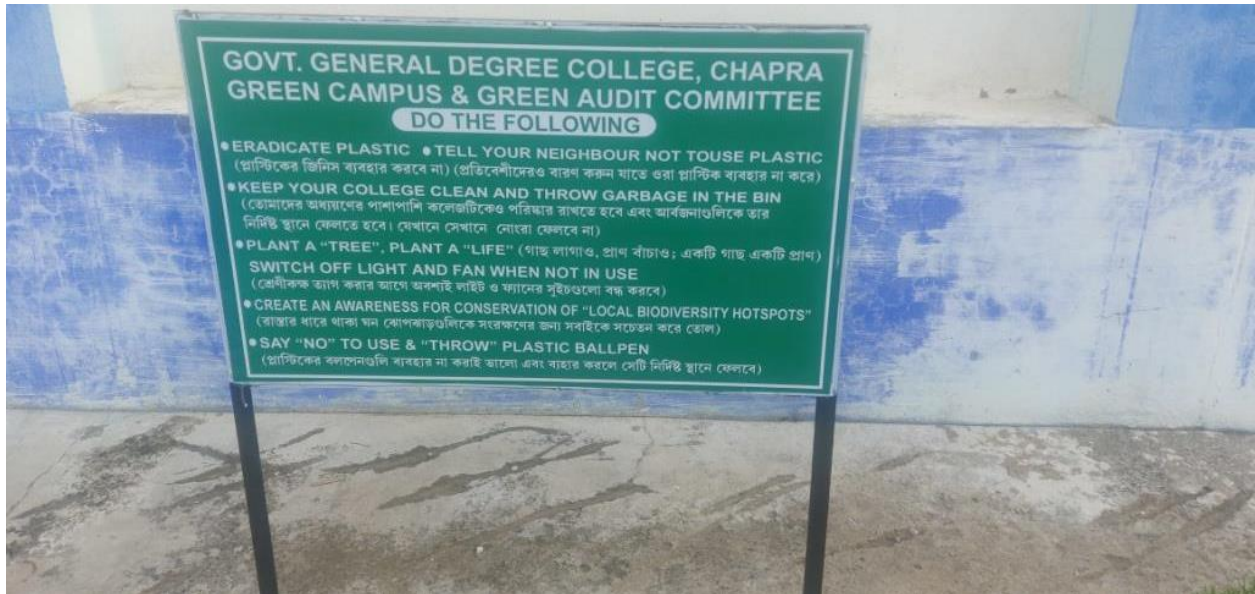


‘SWACHHATA HI SEVA’--Garbage Free India rog organized by NSS UNIT on 04/10/2023



Campus Cleaning by NSS Students on 01/04/2023

PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE CAMPUS



DISPLAYING CAMPUS CLEANING BOARD in Front of Main Building to awareness students, staff and visitors



Campus Cleaning Awareness Prog by NSS Unit on 01/04/2023

PHOTO/IMAGES OF ACTION TAKEN REPORT--CLEANING THE
CAMPUS



Cleaning Plastics inside Butterfly Garden by College Faculties on 24/08/2022

ACHIEVEMENT REPORT: CAMPUS CLEANING

Due to several actions and initiatives by College Authority and especially College NSS unit, Our campus is declared as “PLASTIC-FREE CAMPUS” which is not published elsewhere, but surrounding local people are aware about our cleanliness. We achieve following in respect to Cleaning the Campus:-

- i. Students are not throwing garbages here and there like earlier. They used to practice cleanliness in their mind and heart.
- ii. Students are saying local people, even outside campus not throw garbages on the road, if they see somebody throws garbages.
- iii. Students are used to collect garbages, mainly plastic packets inside dustbins kept at different places in our campus as well as inside class rooms, corridors etc.
- iv. Our security are used to instruct visitors not to throw garbages here and there, but they must put in the dustbins, especially during Exam days when visitors used to come.
- v. Our staffs are used to clean garbages and throw to a particular dustbins.
- vi. Our Faculties are cleaning campus Gardens
- vii. Our Alumni are used to clean our campus

**GEO-TAGGED IMAGES OF ACHIEVEMENT REPORT: CAMPUS
CLEANING**



Top: Left & Right—Cleaning Award Certificates & Mementos are provided to the Students for best Cleaning Achievements. Middle: Left & Right—Campus cleaning drive by NSS Unit—a regular habit achieved by our NSS Unit. Below: Left—Campus cleaning by our Alumni; Right—Campus cleaning by our Faculties.

ACTION TAKEN REPORT--GREENING THE CAMPUS | GREEN CAMPUS INITIATIVES]

Govt General Degree College Chapra took Green Campus initiatives in 2019, but due to COVID pandemic, it was postponed. Again it was initiated from 5th June 2022 on large scale. College NSS unit and Kanyasree Club under the active guidance of Green Campus Monitoring and College Biodiversity Monitoring Committee are actively involved in maintaining College Butterfly and Biodiversity Conservation Gardens including Medicinal Plant Garden where locally available medicinal and threatened plants are collected in and around Chapra Block and preserved here in this garden. College also established Cactus garden and Kitchen garden. Main aim is to conserve local threatened plants including medicinal plants and cultivated wild plants. NSS unit and Kanyasree Club are actively involved in maintaining these Gardens. Total 40 medicinal plants, 32 locally available plant species and more than 200 ornamental garden plants are growing in these gardens. Following Initiatives were/are taken for Green Campus:-

- i. Since 5th June 2022, 15 days interval, we are planting saplings of medicinal plants, fruit plants and ornamental garden plants.
- ii. Our NSS Unit are regularly planting sapling during “MERI MATI MERI DESH GROVE PLANTATION”, “World Forestry Day” and “VAN MOHATSAV WEEK during July”.
- iii. One Garden Mali is employed on daily wage basis to look after the Green Campus of our College.
- iv. Regular watering the Campus plants for greening purpose.
- v. We are purchasing our plants mainly from Two Nurseries, ELOM NAGAR SHAIKH NURSERY at Chapra and “NADIA NURSERY” at Krishnagar. *Besides, we are also collecting wild plants from nearby villages.*
- vi. We are using our own-prepared biofertilizers as well as cowdung in our Garden plants.
- vii. Our Private security also monitors one Kitchen Garden just behind Student Activity Centre.
- viii. Our NSS Unit & Principal established on CACTUS GARDEN near 2nd Gate.
- ix. We are maintaining our Plantation programme at an interval of 15 days, at least one plant, our NSS Unit is actively involved to plant sapling.
- x. Regular weedicidal spraying (bio-based) are done to save our green plants from pests.

GEO-TAGGED IMAGES/VIDEOS OF ACTION TAKEN REPORT---
GREENING THE CAMPUS [GREEN CAMPUS INITIATIVES]



Bio-based weedicidal spraying by our Garden Mali On 25/02/2023



Tree Plantation Programme by our NSS Unit in 21/03/2018 [World Forestry Day]

GEO-TAGGED IMAGES/VIDEOS OF ACTION TAKEN REPORT---
GREENING THE CAMPUS [GREEN CAMPUS INITIATIVES]



Tree Plantation Programme on 21/03/2022 by NSS Unit [World Forestry day]



Green Campus initiative by the Principal on 8/8/2022 to establish Butterfly Conservation Garden

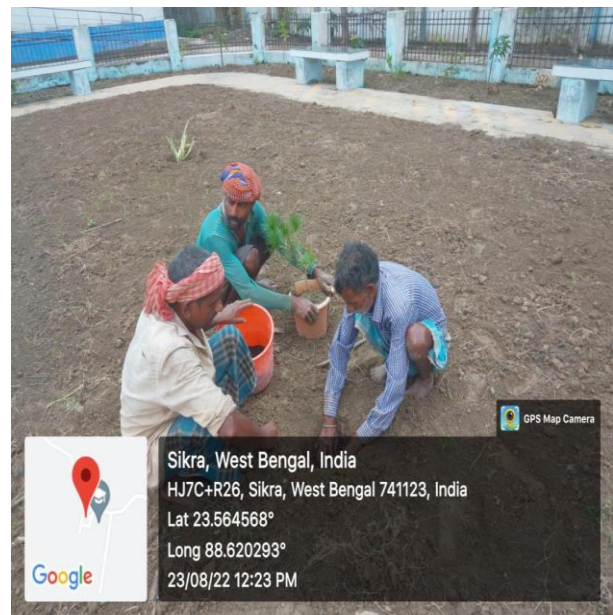
GEO-TAGGED IMAGES/VIDEOS OF ACTION TAKEN REPORT---
GREENING THE CAMPUS [GREEN CAMPUS INITIATIVES]



Butterfly Conservation Garden in June 2022, just before Greening the Garden



Sapling from NADIA NURSERY to be introduced
23/08/2022



Saplings are planted in Butterfly Conservation
Garden on 23/08/2022

GEO-TAGGED IMAGES/VIDEOS OF ACTION TAKEN REPORT---
GREENING THE CAMPUS [GREEN CAMPUS INITIATIVES]



Green Campus Subcommittee first Meeting at Principal's Chamber on 16/08/2022



Regular Watering Campus Plants



Main Building Front side Plantation on 02/08/2023

GEO-TAGGED IMAGES/VIDEOS OF ACTION TAKEN REPORT---
GREENING THE CAMPUS [GREEN CAMPUS INITIATIVES]



Local Wild Plant Collection Trip for our Greening Campus initiative on 04/09/2022

VIDEO LINK: GREEN CAMPUS INITIATIVE

1. <https://chapragovtcollege.org/Gallery/Video/Green%20Campus%20during%20June%202022%201.mp4> [Green Campus initiative in June 2022]
2. <https://chapragovtcollege.org/Gallery/Video/Green%20Campus%20initiative%20during%202018%20to%202019.mp4> [Initiation Day Green Campus in 2018]
3. <https://chapragovtcollege.org/Gallery/Video/Video%20%20Initiation%20day%20of%20Green%20Campus%202022.mp4> [Initiation Day Campus Cleaning in 2022]
4. <https://chapragovtcollege.org/Gallery/Video/Watering%20Campus%20Plants%20in%20Jan%202023.mp4> [Campus plant WATERING in Jan 2023]
5. <https://chapragovtcollege.org/Gallery/Video/Watering%20Campus%20Plants%20May%202023.mp4> [Campus Plant watering in May 2023]
6. <https://chapragovtcollege.org/Gallery/Video/Watering%20saplings%20in%20July%202022.mp4> [Watering sapling]
7. <https://chapragovtcollege.org/Gallery/Video/Weedicide%20spraying.mp4> [Weedicidal spraying]



AWARENESS DISPLAY BOARD IN FRONT OF MAIN BUILDING BY GREEN CAMPUS MONITORING COMMITTEE TO KEEP GREEN TO KEEP CLEAN....

ACHIEVEMENT REPORT--GREENING THE CAMPUS | GREEN
CAMPUS INITIATIVES]

- i. Govt General Degree College Chapra attracts students, parents, local people and other visitors due to its Unique Butterfly Conservation Garden [established on 5th June 2022]
- ii. Govt General Degree College beautifies itself for its Unique Green Campus by establishing Butterfly Conservation Garden, Biodiversity Conservation Park, Medicinal Plant Garden, Cactus Garden, Kitchen Garden, Main Building Frontside Garden----all for GREEN CAMPUS INITIATIVES STARTED on 5th JUNE 2022.
- iii. Birds are making nests, Butterflies are laying eggs, Squirrels are playing here and there, Snakes are crawling here and there, Monitor Lizards are monitoring our Green Campus like our Guardian, Snails are gliding, Toads are jumping during the night, insects are flying throughout our Campus----all make our Campus Green and rich in Biodiversity.

GEO-TAGGED PHOTO/VIDEO OF ACHIEVEMENT REPORT---
GREENING THE CAMPUS | GREEN CAMPUS INITIATIVES|



College Butterfly Conservation Garden during May 2023



College Butterfly Garden in November 2023

GEO-TAGGED PHOTO/VIDEO OF ACHIEVEMENT REPORT---
GREENING THE CAMPUS | GREEN CAMPUS INITIATIVES|



OUR UNIQUE GREEN CAMPUS IN JULY 2024: Butterflies are plenty

GEO-TAGGED PHOTO/VIDEO OF ACHIEVEMENT REPORT---
GREENING THE CAMPUS | GREEN CAMPUS INITIATIVES|



BUTTERFLY CONSERVATION PARK



BIODIVERSITY CONSERVATION PARK

GEO-TAGGED PHOTO/VIDEO OF ACHIEVEMENT REPORT---
GREENING THE CAMPUS | GREEN CAMPUS INITIATIVES|



VIDEO LINK

1. https://chapragovtcollege.org/Gallery/Video/Green%20Campus_May%202023_butterfly%20Garden.mp4 [Butterfly Garden]
2. <https://chapragovtcollege.org/Gallery/Video/Green%20campus%20&%20overall%20College%20infrastructure%20Video.mp4> [Overall Green Campus]
3. <https://www.chapragovtcollege.org/DVV/182310Monitor%20Lizard.mp4> [Monitor Lizard]
4. <https://www.chapragovtcollege.org/DVV/182355Bird%20Nesting%20in%20August%202024.mp4> [BIRDS NESTING in AUGUST 2024]

4. CLARIFICATIONS RAISED DURING DVV: 7.1.3.--- HEI to provide ample evidences such as Circular, report, Attendance sheet, Geo-Tagged photos with date and caption, newspaper clippings (if any) for beyond the campus environmental promotional activities.....

CLARIFICATIONS REPLIED: 7.1.3:

- i. Provided ample evidences of BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES such as Geo-Tagged Photos with Reports with Date and Caption, **Awareness, Awards** etc. Newspaper clippings are not available as this work is not published in media or Newspaper yet, but soon we will do the needful.

**BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES:
PROVIDED—GEO-TAGGED-PHOTOS/AWARDS/AWARENESS-PROGRAMMES/
REPORTS:-**

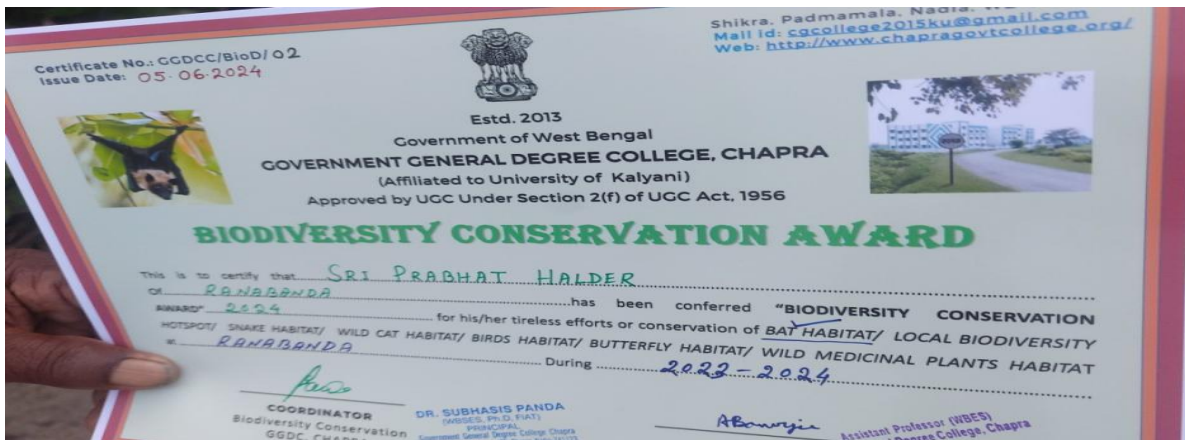


Environmental Promotional Awareness Speech (Local Biodiversity Conservation) on 29/11/2022 at Mahakhola Bidhan Vidyapith School with our Foreign Guest & Ethnobotanist, Prof. Mostafa Elachourie, Morocco.



FRUIT BAT CONSERVATION AT RANABAND, 4 KM FROM COLLEGE CAMPUS---
initiated on 5th June 2022. Geo-tagged photo taken during Monitoring work on 17/03/2024

**BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES:
PROVIDED—GEO-TAGGED-PHOTOS/AWARDS/AWARENESS-PROGRAMMES/
REPORTS:-**



'Biodiversity Conservation Award 2024' Conferred to a local people of Ranaband, Sri Prabhat Halder on 15th August 2024, for his tireless efforts to conserve Fruit Bats. He alone fought against Bat poachers during April 2024. Award was given by the Principal at the Conservation Spot.....

**BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES:
PROVIDED—GEO-TAGGED-PHOTOS/AWARDS/AWARENESS-PROGRAMMES/
REPORTS:-**



'Biodiversity Conservation Award-2024' to a Local people of Gongra on 15th August 2024, 8 km from our College Campus, near Bangladesh Border, for his tireless efforts to Conserve one “Local Biodiversity Hotspot” near his house, inside this hotspot Wild Cat is residing.....



This LOCAL HOTSPOT IS CONSERVING & MONITORING BY HIM.....



'Biodiversity Conservation Award-2024' to a Local people of Gongra on 15th August 2024, 8 km from our College Campus, near Bangladesh Border, for his tireless efforts to Conserve one "Local Biodiversity Hotspot" near his house. He is worshipping regularly like an idol of Goddess, and offering Dhup [Incense stick] and flowers occasionally.....



Creating Awareness among local School Students of St Mary's School, ranaband, for conserving Biodiversity and its role to us in April 2024 by our Principal, A Plant Conservationist, trained in Botanical Survey of India...



REPORT: An awareness on “Local Biodiversity Conservation” organized by our Biodiversity Conservation Monitoring Committee in presence of Research Officer, West Bengal Biodiversity Board and Representative of GECDf [Global Environmental Climate and Developmental Foundation], Somalia, East Africa on 6th April, 2024 at a Local Hotspot, near our College.

- i. They documented more than 15 ethnomedicinal plants which are nearly Threatened as per IUCN
- ii. They extend their cooperation, even financial also for conservation purpose
- iii. Local people reported that Wild cats are often taking shelter during day time.

Our Achievements: When We conserve this ‘bushes’--Local Biodiversity Hotspot on 5th June 2022, then its size was only 5 sq ft area. Fortunately on 15th august, 2024, its size is measured 16 sq ft area, and plenty of butterflies, insects, snakes, toads, Squirrel, birds are observed, but not identified scientifically due to unavailability of experts.....

**BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES:
PROVIDED—GEO-TAGGED-PHOTOS/AWARDS/AWARENESS-PROGRAMMES/
REPORTS:-**

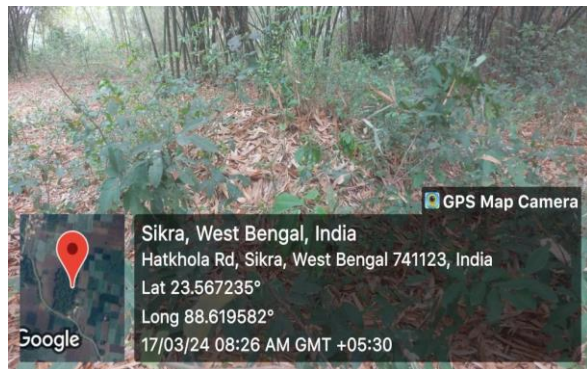


REPORTS: A Representative from GECDF [Global Environmental Climate and Developmental Foundation], Somalia, East Africa participated in an Awareness Programme on 13th June, 2024 at a Local Hotspot, near GONGRA-RAJIBPUR Roadside, near Bangladesh Border.



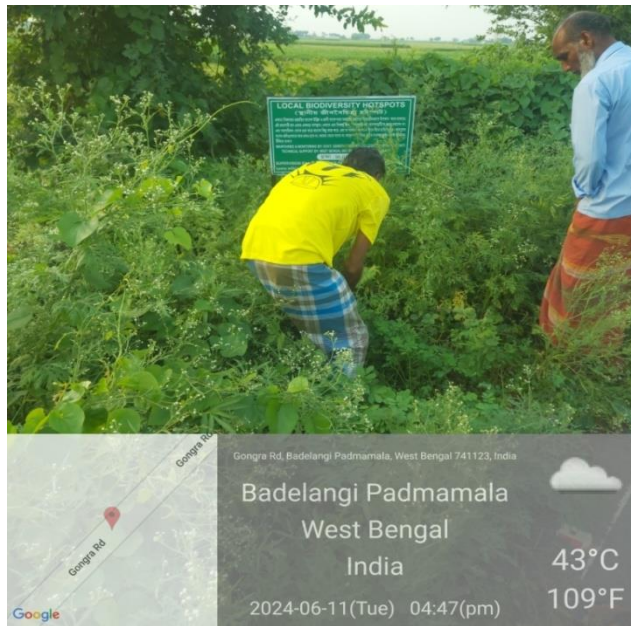
Awareness Programme at Rajibpur Local Biodiversity Hotspot, 6 km from College Campus by the Principal on 6th April 2024 , along with local Cultivators.....

**BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES:
PROVIDED—GEO-TAGGED-PHOTOS/AWARDS/AWARENESS-PROGRAMMES/
REPORTS:-**



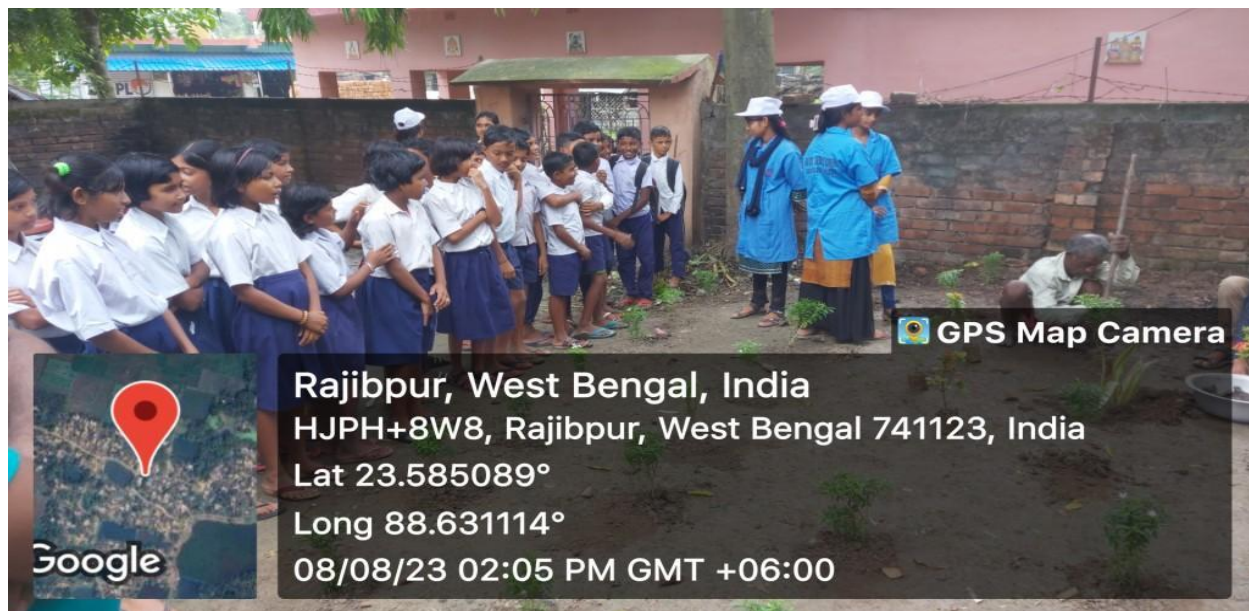
REPORTS: Snake Habitat Conservation by our NSS Unit at Outskirt of Shikra village, 100 metre from our College Campus on Hatkhola-Shikra Road on 5th June 2022:- TOP—Right—Herpetologist from University of Kalyani, Zoology Dept visited the spot on 17/03/2024. MIDDLE & BELOW: Visitors and Researchers from Ranaghat College, Nadia, Asannagar MMT College, Nadia and Karimpur Pannadevi College visited the site in April-May, 2024.....

**BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES:
PROVIDED—GEO-TAGGED-PHOTOS/AWARDS/AWARENESS-PROGRAMMES/
REPORTS:-**



‘Biodiversity Local Hotspots’ Monitoring at different times----17/03/2024; 11/06/2024 and 13/06/2024---A FEW IMAGES PROVIDED.....

**BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES:
PROVIDED—GEO-TAGGED-PHOTOS/AWARDS/AWARENESS-PROGRAMMES/
REPORTS:-**



Establishment of 'Butterfly Conservation Garden' at Rajibpur Primary School by our NSS Unit on 8th August 2023 under NSS "MERI MATI MERI DESH" Prog.....



'Biodiversity Conservation Award-2024' conferred to a Local Villager of Shikra [Zakir Shaikh] for his tireless efforts to conserve this Local hotspot near his residence.....

**BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES:
PROVIDED—GEO-TAGGED-PHOTOS/AWARDS/AWARENESS-PROGRAMMES/
REPORTS:-**



‘Biodiversity Conservation Award-2024’ conferred to a Local Villager of Shikra for his tireless efforts to conserve SNAKE HABITAT.....



‘Biodiversity Conservation Award-2024’ conferred on 26/08/2024 to Sri Santosh Kumar, Lt Cornel at GONGRA BSF 17 batallion, for his monitoring our Biodiversity Hotspot at Rajivpur during his patrolling...

**BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES:
PROVIDED—GEO-TAGGED-PHOTOS/AWARDS/AWARENESS-PROGRAMMES/
REPORTS:-**



'Biodiversity Conservation Award-2024' conferred to GONGRA BSF Check post Assistant Commander on 26/08/2024 for his monitoring our Biodiversity Hotspot at Gongra



'Biodiversity Conservation Award-2024' conferred to SHIKRA BSF Check post Assistant Commander on 29/08/2024 for his monitoring our Biodiversity Hotspot at Shikra & Gongra area at our College Seminar Hall during Anti-Human Trafficking Awareness Programme.....

**BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES:
PROVIDED—GEO-TAGGED-PHOTOS/AWARDS/AWARENESS-PROGRAMMES/
REPORTS:-**



‘Biodiversity Conservation Award-2024’ conferred to SHIKRA BSF Check post Assistant Commander on 29/08/2024 for his monitoring our Biodiversity Hotspot at Shikra & Gongra area at our College Seminar Hall during Anti-Human Trafficking Awareness Programme.....



‘Biodiversity Conservation Award-2024’ conferred to SHIKRA BSF Check post Assistant Commander on 29/08/2024 for his monitoring our Biodiversity Hotspot at Shikra & Gongra area at our College Seminar Hall during Anti-Human Trafficking Awareness Programme.....

**BEYOND THE CAMPUS ENVIRONMENTAL PROMOTIONAL ACTIVITIES:
PROVIDED—GEO-TAGGED-PHOTOS/AWARDS/AWARENESS-PROGRAMMES/
REPORTS:-**

VIDEO LINK

1. <https://chapragovtcollege.org/Gallery/Video/Environment/Biodiversity%20at%20Gongra%20Video.mp4>
2. <https://chapragovtcollege.org/Gallery/Video/Environment/Biodiversity%20Awareness%20by%20Elachouri%20&%20Me.mp4>
3. <https://chapragovtcollege.org/Gallery/Video/Environment/Ecorestoration%20Bat%20conservation%202.jpg>
4. <https://chapragovtcollege.org/Gallery/Video/Environment/Fruit%20Bat%20Conservation%20Video.mp4>
5. <https://chapragovtcollege.org/Gallery/Video/Environment/Hotspot%20Conserv%20Awareness%20with%20School%20students%20Video.mp4>
6. <https://chapragovtcollege.org/Gallery/Video/Environment/ITK%20study%20in%20the%20Field%20at%20Hotspot.mp4>
7. <https://chapragovtcollege.org/Gallery/Video/Environment/Wild%20cat%20Habitat%20Gongra%20Video.mp4>

5. **CLARIFICATION RAISED BY DVV TEAM: HEI to provide Registration Certificate of the UK Assessment & Inspection Ltd.:-**

CLARIFICATION REPLIED: Provided here the Certificate as requested.....



The certificate features a blue header with the UK Assessment & Inspection Ltd. logo and a QR code. The main text is centered on a white background with a faint world map. The word 'CERTIFICATE' is written vertically in large white letters on the left side. The certificate details the registration of the Government General Degree College Chapra for ISO 14001:2015. It includes the date of certification (XXTH FEB 2024), issuance date (XXTH FEB 2024), and surveillance dates (1st: XXTH FEB 2025, 2nd: XXTH FEB 2026, Re-Certificate: XXTH FEB 2027). The certificate number is UKAI-EFCS-DRAFT. The validity can be verified at www.ukai.org.uk. At the bottom, there are four circular logos: UK Assessment & Inspection Ltd. (Auth. Signatory), UGAC (University Grants Commission), UK Assessment & Inspection Ltd. (Registered), and ISO 14001:2015 (Certified).

Certificate of Registration

This is to certify that
of
GOVERNMENT GENERAL DEGREE COLLEGE CHAPRA

P.O.- CHAPRA, DIST - NADIA - 741123, WEST BENGAL, INDIA.

has been independently assessed and is compliance with the requirement of:

ISO 14001:2015
Environment Management System
For the following scope of activities

PROVIDING BACHELOR DEGREE PROGRAMS

Certificate Number: UKAI-EFCS-DRAFT

Validity of this certificate can be verified at www.ukai.org.uk

Date of Certification	XX TH FEB 2024
Issuance Date	XX TH FEB 2024
1st Surveillance Due	XX TH FEB 2025
2nd Surveillance Due	XX TH FEB 2026
Re-Certificate Due	XX TH FEB 2027

UK Assessment & Inspection Ltd.
CAB ADDRESS :63 Maple Road, Surbiton, England, KT6 4AG
Validity of this certificate is subject to annual surveillance audits to be done successfully This certificate is the property of UK Assessment & Inspection Ltd. and shall be returned immediately on request UK Assessment & Inspection Ltd. is an independent Systems Products and Personal assessment Body, UK Assessment & Inspection Ltd. is a accredited by UG-AC.ORG