



सत्यमेव जयते

Government of West Bengal  
Office of the Principal

# GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY

At.-Telipukur : P.O.- Tilaboni Mahisamura : P.S.- Keshiary  
Dist- Paschim Medinipur : PIN-721135  
www.ggdckeshiary.ac.in

## Criterion 7: Institutional Values and Social responsibilities

### 7.1.3 Quality audit on environment and energy regularly undertaken by the institution

1. Green Audit/Environmental Audit
2. Energy Audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion and sustainability activities

## ADDITIONAL DATA

Report on action taken and achievement on clean and green campus initiatives



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## **Action taken on the recommendation of Green Audit and Energy Audit Experts on Green Initiatives: A Report**



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Office of the Principal

# GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY

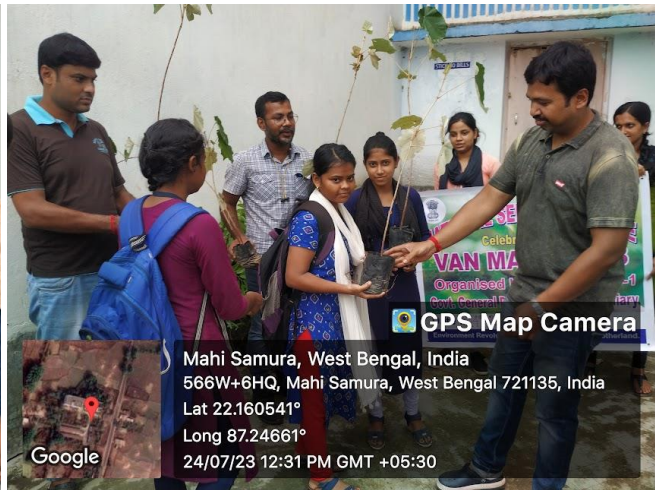
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## A. Plantation of more trees:

Following the recommendations of the external experts of the Green Audit and Energy Audit Committee as reflected in the Green Audit and Energy Audit Report for the AY 2022-2023, Government General Degree College has intensified the drive for plantation of more trees within its campus. The college has received a supply of 200 plant saplings from Divisional Forest Officer, Kharagpur Division, Paschim Medinipur, West Bengal on the occasion of Van Mahatsav and the mentioned saplings were planted in the college campus by the teachers and students with great enthusiasm on 24.07.2023. Besides, college has expanded its butterfly garden and medicinal plant garden on the occasion of Van Mahatsav plantation drive on 15.07.2024.



**Figure 1:** The event of plantation of saplings from Divisional Forest Officer, Kharagpur Division, Paschim Medinipur, West Bengal on the occasion of Van Mahatsav at Government General Degree College, Keshiary on 15.07.2024 by the teacher and students.



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*Handwritten:* File

*Handwritten:* [Signature]



GOVERNMENT OF WEST BENGAL  
Directorate of Forests  
Office of the Divisional Forest Officer,  
Kharagpur Division



P.O. Hijli Co-operative Society, Kharagpur 721306  
Dist. Paschim Medinipur, West Bengal  
E-mail ID: [dfokgpdivn20@gmail.com](mailto:dfokgpdivn20@gmail.com).

No. 1593 /28-18/(VAN)/2023, Dated, Kharagpur, the 21/06/2023.

From : The Divisional Forest Officer  
Kharagpur Division.

To : The Range Officer,  
Belda Forest Range, Kharagpur Division.

Sub : Request for supply of seedlings for plantation in the premises of DDGC, Keshiary.

Ref : Memo No. 148/GGDCK/2023, dated 13-06-2023 of the Officer-in-charge, Government  
General Degree College, Keshiary.

Please find enclosed a copy of the above referred letter which will speak for itself. In this  
connection, you are hereby directed to supply the required seedlings, as would be available, to the  
applicant during Ban Mahotsab, 2023 for the period from 14<sup>th</sup> July, 2023 to 20<sup>th</sup> July, 2023 on free of  
cost as per norms.

This is for favour of your kind information and necessary action.

Encl:- As Stated.

*Handwritten:* [Signature]  
Divisional Forest Officer,  
Kharagpur Division.

No. 1593(B) /28-18/(VAN)/2023, Dated, Kharagpur, the 21/06/2023.

Copy forwarded for favour of information and taking necessary action to:-

- 1) The Chief Conservator of Forests, Western Circle, West Bengal.
- 2) The Asstt. Divisional Forest Officer, Kharagpur Division.
- 3) The Officer-in-charge, Government General Degree College, Keshiary, Paschim Medinipur.

*Handwritten:* [Signature]  
Divisional Forest Officer,  
Kharagpur Division.

Dkc/Correspondence (Regarding Van Mahotsav-21/23/

**Figure 2:** Sanction letter for supplying saplings from Divisional Forest Officer, Kharagpur Division, Paschim Medinipur, West Bengal on the occasion of Van Mahatsav for plantation at Government General Degree College, Keshiary



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At.-Telipukur : P.o.- Tilaboni Mahisamura : P.s.- Keshiary

Dist- Paschim Medinipur : PIN-721135

Memo No. 149/GGDC/K/2023

Date. 13/06/2023

From : The Principal  
Government General Degree College, Keshiary

Recd No. 1961  
File No. 28-18  
Date. 16/06/23  
Signature of Recd. Officer  
Signature of Principal

To :

To  
The District Forest Officer  
Forest Department  
Paschim Medinipur Forest Range  
Paschim Medinipur, PIN 721101

**Subject: Request for saplings for plantation in the premises of GGDC, Keshiary**

Dear Sir,

This is to inform you that the Government General Degree College, Keshiary is going to organize 'Tree Plantation Programme' on the occasion on Vana Mahotsava and we aim to plant around 200 saplings in our college campus. The students along with teaching and non-teaching staff would participate in this noble programme. In order to make this programme a success, we are in need of around 200 different plant saplings belonging to the variety of Sal, Segun, Mehogoni, Mango, Jackfruit etc.

In this scenario it is our humble request to your good office to make provision for the abovementioned plant saplings at the earliest. Your cooperation in this regard is highly appreciated. Thanking in anticipation.

MOB. No. 8250368042, 9432114631

Yours faithfully,



*Chakrabarty*  
13/06/2023  
Officer-in-Charge  
Government General  
Degree College  
Keshiary

*20/Bader*  
*Seedlings up to*  
*allow during*  
*Ben. Mahotsava*  
*(14-20 July 23)*

*21/06/23*  
Divisional Forest Officer  
Kharagpur Division

**Figure 3:** Requisition letter for supplying saplings from Divisional Forest Officer, Kharagpur Division, Paschim Medinipur, West Bengal on the occasion of Van Mahatsav for plantation at Government General Degree College, Keshiary



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**Figure 4:** The event of plantation of flowering plants in the butterfly garden of Government General Degree College, Keshiary on 15.07.2024 by the teacher and students on the occasion of Van Mahatsav.



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## B. Clean Campus Drive:

The institute has initiated multiple programme in association with the NSS Unit I of the college to generate an ambience of clean and healthy campus which includes: regular campus cleaning drive, plastic cleaning drive, de-weeding of the garden, anti-tobacco and “say no to plastic” rally, rally against Dengue and other mosquito borne diseases.

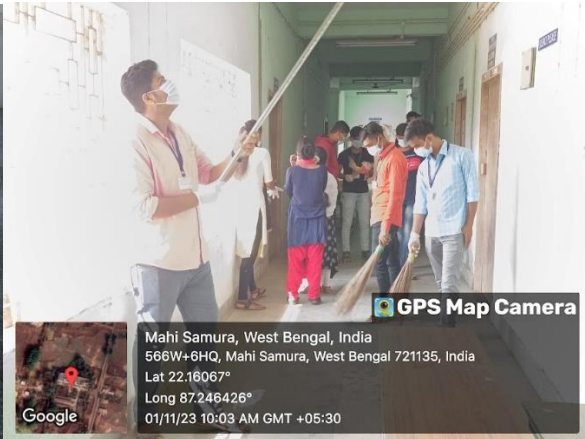
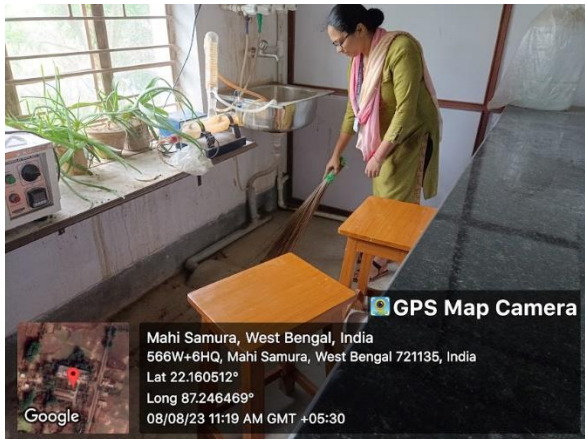


Figure 5: The glimpses of different initiatives of the college round the year to maintain a clean campus that includes: campus cleaning drive, plastic cleaning drive, de-weeding of the garden, anti-tobacco and “say no to plastic” rally, rally against Dengue.



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## C. Repair and maintenance of water pipelines:

Government General Degree College, Keshiary had sought allocation from the Department of Higher Education, Government of West Bengal for repair and maintenance work of its toilets and plumbing work to minimise the loss of water. Accordingly, the college had received allocation of **Rs.9,77,933/- (Rupees Nine Lakh Seventy Seven Thousand Nine Hundred Thirty Three only)** only for the repair and maintenance work executed by the P.W.Dte., Social Sector, Midnapore Division. The repair and maintenance work has mended the sanitary and plumbing faults of the college and has prevented loss of water. The documentary evidence of the mentioned repair-maintenance work is reflected in Figure 6 A, B.

## D. Repair and maintenance of electrical installations:

Government General Degree College, Keshiary had sought allocation from the Department of Higher Education, Government of West Bengal for repair and maintenance work of its electrical installations. Accordingly, the college had received allotment of **Rs.4,39,441/- (Rupees Four Lakh Thirty Nine Thousand Four Hundred Fourty One only)** for the repair and maintenance work executed by the P.W.Dte., (Electrical), Social Sector, Midnapore Division. In the mentioned work, many of the CFL tubes have been replaced with LED tubes as recommended by the Green Audit and Energy Audit Committee and reflective in the Green Audit and Energy Audit Report for the AY 2022-2023. The action is deemed to reduce electrical consumption of the institute and reduce carbon emission. The documentary evidence of the mentioned repair-maintenance work is reflected in Figure 7. Moreover, the college has received approval for AMC of Electrical Installations amounting **Rs.5,19,362/- (Rupees Five Lakh Nineteen Thousand Three Hundred Thirty Three Sixty Two only)** from the Government for year-long maintenance of the electrical installations which is now operational in the College (Figure 8).

## E. Disposal of plastic waste:

Government General Degree College, Keshiary has communicated the BDO, Keshiary Block, Paschim Medinipur for disposal of plastic waste generated within the campus on regular basis (Figure 9). The BDO, Keshiary Block has initiated steps to accomplish the mentioned request at the earliest.





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GOVERNMENT OF WEST BENGAL  
Higher Education Department

Memo No:GO2324003200HE  
File No:HED-18011(11)/3/2023-APP SEC

Date: 13/07/2023

From : DEPUTY SECRETARY  
Higher Education  
GOVERNMENT OF WEST BENGAL  
Higher Education

To :  
Chief Engineer , Social Sector, P.W.Dte.

Subject First Revised Administrative Approval for the Project Urgent repairing work including Sanitary and Plumbing Works at Government General Degree College at Keshiary in the District of Paschim Medinipur ,(HE222371250S000) against original approval accorded vide order no GO2223012580HE dated 30/01/2023.

The undersigned is directed , by order of the Governor, to say that the Governor has been pleased to accord First revised Administrative Approval Order to the above mentioned work/project, the revised details of which has been given below.

First Revised Name of the Project : Urgent repairing work including Sanitary and Plumbing Works at Government General Degree College at Keshiary in the District of Paschim Medinipur .

Project ID : HE222371250S000

Address : Government General Degree College at Keshiary

First Revised Administrative Approval : Rs. 977933 (Rupees Nine Lakh Seventy Seven Thousand Nine Hundred Thirty Three Only.)

Original Administrative Approval : Rs. 928207 (Rupees Nine Lakh Twenty Eight Thousand Two Hundred Seven

Reason for revision : Change of GST from 12% to 18%

Phasing amount and chargeable head of accounts

Sl No.	Financial Year	Head	Scheme Type	Scheme Name	Amount
1	22-23	70-4202-01-203-00-005-53-00-00-V	State Development Schemes	Establishment of new Government Colleges (Higher)	0
2	23-24	70-4202-01-203-00-005-53-00-00-V	State Development Schemes	Establishment of new Government Colleges (Higher)	977933
Total					977933

Tendered Amount :

Executing Authority :

DDO Details :

TREASURY :

Page 1 of 2

**Figure 6 A:** Government approval order for the urgent repair and maintenance work at GGDC, Keshiary executable by the P.W.Dte., Social Sector, Midnapore Division

Officer-in-Charge  
Govt. Gen. Degree College  
Keshiary



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This order is issued with the concurrence of FINANCIAL ADVISOR ( Higher Education) of this Department vide their / his U.O No. AA2324009626FA00 Dated 11/07/2023.

DEPUTY SECRETARY

Government of West Bengal  
Higher Education Department

Date: 13/07/2023

Memo No: GO2324003200HE

Copy forwarded for information and necessary action to :

SL NO.	Designation	Office
1	The Principal Secretary / Secretary	(Higher Education)
2	The Principal Accountant General(A&E)	WestBengal
3	The Principal Accountant General(Audit)	WestBengal
4	The Principal Accountant General(RW/LBA)	WestBengal
5	The Financial Advisor	(Higher Education)
6	The Finance department	(Group GR1)
7	The Executive Engineer	Social Sector , Midnapore Division , ,P.W.D.
8	The Officer-in -Charge	GGDC, Keshiary

DEPUTY SECRETARY

Government of West Bengal  
Higher Education Department

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**Figure 6 B:** Government Order for the urgent repair and maintenance work at GGDC, Keshiary executable by the P.W.Dte., Social Sector, Midnapore Division



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 GOVERNMENT OF WEST BENGAL

Tel:  
Fax:

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Sanction-cum-Allotment Order

Memo No : 608 (Sanc.)HED-16011(11)/136/2022-APP SEC Date: 08/09/2023  
Demand No. : 70 Department Code : HE Financial Year : 2023 - 2024

1. Sanctioning Authority: DEPUTY SECRETARY
2. Name of the Scheme/Project: As per annexure enclosed
3. Purpose of Sanction: Special repairing to the E.I Work for the College Building of GGDC , Keshiary.
  
4. Amount of this Financial Sanction : Rs. 439441 (in words Rs. Four Lakh Thirty Nine Thousand Four Hundred Forty One Only. )
5. Head(s) of Account(s): 4202-01-203-00-005-53-00-V
6. Name of the Sub-Allotting Authority / DDO: See Annexure
7. Name of the Treasury/PAO: See Annexure
8. This Order is not an authority to incur any expenditure which is not permitted under any financial rule and/or order of the Government or approved guideline of the Scheme/Project.
- 9 Under no circumstances the allotted amount placed under this sanction may be utilized / diverted for any other purposes
10. Special Instruction, if any:

Fund is released to be executed by the Executive Engineer , Paschim Medinipur Electrical Division ,P.W.Dte. subject to strict compliance of all financial rules ,tender rules of WBFR and utilization of fund within this FY . This order issues with concurrence of F.A. (HED) vide U.O. No. FR2324017352FA00 dt. 05.09.2023.

11. Total released amount is within the Budget Provision of the above mentioned head of account during 2023 - 2024
12. This order issues in exercise of the power delegated under Finance Department Memo. No. 1400-F.B. dated 30.03.2023 (PLEASE SEE THE ANNEXURE TO SEE THE FUND RELEASE UO NO FOR PROJECTS)

DEPUTY SECRETARY  
Higher Education, Science & Technology and Bio-Technology

**Figure 7:** Government Allotment order for the urgent repair and maintenance work of Electrical Installations at GGDC, Keshiary executable by the P.W.Dte., Electrical Division, Midnapore.



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Government of West Bengal  
Department of Higher Education, (CG Branch)  
Bikash Bhawan, Salt Lake City,  
Kolkata - 700091

No. 94 Edn(CG)/ HED-16011(11)/136/2022-APP Date 13.03.2024

From:  
The Deputy Secretary to the Govt. of West Bengal,  
Department of Higher Education (C.G Branch)

To:

The  
Principal,  
Govt General Degree College,  
Keshiary, Paschim Medinipur,

Sub: AMC of Electrical Installation of the Govt General Degree College,  
Keshiary, Paschim Medinipur

Sir,

I am directed by order of the Governor to say that the Governor has been pleased to accord financial sanction for the following project as detailed below.

**Name of the Project:** AMC of Electrical Installation of the Govt General Degree College, Keshiary, Paschim Medinipur,


**Head of Account:** "70-2202-03-103-00-009-27-00-V

**Executing Agency:** Executive Engineer, PWD Dte, Medinipur Electrical Division

**Amount of Financial Sanction :** Rs 5,19,362/- (Five lakh nineteen thousand three hundred and sixty two only ).

This order issues with concurrence of the Finance department Group B UO NO : Group B/2023-2024/0340 UO Date : 12/03/2024 subject to strict observance of all the Financial Rules of the State Government with Phasing of Expenditure 2024 -2025.


Work Order and Tax Invoice Bill is to be produced before release of fund with phasing of expenditure in 2024-25.

  
Deputy Secretary to the Govt. of West Bengal  
Department of Higher Education

No. 94/1(4) Edn(CG)/ HED-16011(11)/136/2022-APP Date 13.03.2024

Copy forwarded for information and necessary action to-

1. The Financial Advisor, Higher Education Department, Bikash Bhawan, Salt Lake, Kolkata-700091.
2. The Director of Public Instruction, W.B, Bikash Bhawan, Salt Lake, Kolkata.
3. : Executive Engineer, PWD Dte, Medinipur Electrical Division
4. Guard File

  
Deputy Secretary to the Govt. of West Bengal  
Department of Higher Education

**Figure 8:** Government Order for the AMC of electrical installation at GGDC, Keshiary executable by the P.W.Dte., Electrical Division, Midnapore.



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Office of the Principal

**Government General Degree College, Keshiary**

P.O. Tilaboni Mahisamura P.S. Keshiary, Dist. Paschim Medinipur, PIN 721135  
www.ggdckeshiary.ac.in

Memo. No. 203/GGDCK/2023,

Date: 24.08.2023

To  
Block Development Officer,  
Keshiary Development Block,  
Paschim Medinipur, West Bengal

**Subject:** Request for assisting in disposal of the plastic wastes from the college campus

Sir,


I would like to inform you that the campus of Government General Degree College, Keshiary is maintained as a "Plastic Free Zone" following the environmental policy adopted by the college administration. The NSS Unit I of the college regularly take initiative in cleaning the campus from disposable plastic materials. However, the college is facing a problem to dump the collected plastic materials ready for disposal into some facility where it will be recycled or repurposed.

In this scenario, I request your good office to assist us to ethically dispose of the plastic waste generated within the college campus to some facility maintained or referred by your good office. The college is ready to sign relevant agreement with your good office to dispose of the plastic waste generated inside the campus on ethical terms.

Thanking you in anticipation of your sharp action.

Yours sincerely,



  
Officer-in-Charge  
Government General  
Degree College  
Keshiary

**Figure 9.** Communication to the BDO, Keshiary Block, Paschim Medinipur for disposal of plastic waste generated within the campus of GGDC, Keshiary



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## **Achievement on clean and green campus initiatives: A Report**



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Where there is Rural Wellbeing there is Universal Prosperity	भारत 2023 INDIA	सत्यमेव जयते Ministry of Education Government of India			
भारत सरकार / Government of India महात्मा गांधी राष्ट्रीय ग्रामीण शिक्षा परिषद / Mahatma Gandhi National Council of Rural Education उच्च शिक्षा विभाग / Department of Higher Education शिक्षा मंत्रालय / Ministry of Education					
<h2>Certificate of Accreditation</h2>					
This is to certify that  <b>GGDC Keshiary</b>  District-Paschim Medinipur; State-W.B.  is graded as					
Parameters	Green Cover on campus	Surface Water Harvesting	Rooftop Water Harvesting	Rooftop Solar System	Waste Management
Grades	A*	C*	C	B	B*
for the academic year of 2022-23 in Phase 1 of the <b>National Rural Institutions Sustainability Grading (NRISG)</b>					
					<i>Nagalakshmi.</i> <b>Member Secretary</b>
Date: March 2023 Certificate NO: MGNCRE/NRISG/Paschim Midnapore-0008					

Figure 10: Certificate of Accreditation from Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India on green initiatives

*Nagalakshmi.*  
Officer-in-Charge  
Govt. Gen. Degree College  
Keshiary



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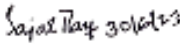
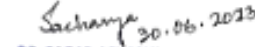

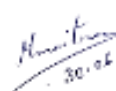

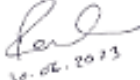

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GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY: GREEN AUDIT & ENERGY AUDIT REPORT, 2022-2023			
			2
<b>1. Disclaimer</b>			
<p><i>The Green Audit and Energy Audit Team</i> has prepared this report on the basis of primary data collected from Government General Degree College, Keshiary. The report has been prepared with utmost care considering every detail as far as practicable. The Green Audit and Energy Audit Report of Government General Degree College, Keshiary for the Academic Year 2022-2023 is hereby authenticated.</p>			
SL. NO.	NAME	DESIGNATION & AFFILIATION	Signature with Seal
1.	DR. SAJAL RAY	Professor in Zoology, Department of Zoology, University of Calcutta, Kolkata, West Bengal	 <b>Dr. Sajal Ray</b> Professor Zoology Department Calcutta University
2.	DR. SAGAR ACHARYA	Assistant Professor in Zoology, Department of Zoology, Vidyasagar University, Paschim Medinipur, West Bengal	 <b>DR. SAGAR ACHARYA</b> Assistant Professor Department of Zoology VIDYASAGAR UNIVERSITY Midnapore - 721022
3.	DR. SUJIT KUMAR BHOWAL	Associate Professor in Zoology, Department of Zoology, Maulana Azad College, Kolkata, West Bengal	 <b>Dr. Sujit Kumar Bhowal</b> Associate Professor of Zoology Higher Education Dept. Govt. of West Bengal Maulana Azad College, Kol-13
4.	DR. MADHUMITA MAITRA	Assistant Professor in Microbiology, Department of Microbiology, St. Xavier's College (Autonomous), Kolkata, West Bengal	  <b>Dr. Madhumita Mitra</b> Assistant Professor Department of Microbiology St. Xavier's College (Autonomous) Kolkata, West Bengal
5.	DR. RAJENDRA PRASAD DE	Assistant Professor in Botany, Department of Botany, Government General Degree College, Mohanpur, Paschim Medinipur, West Bengal	 <b>Dr. Rajendra Prasad De</b> Assistant Professor (WBES) Dept. of Botany Mohanpur Govt. College Govt. of West Bengal
6.	ARNAB KUMAR MONDAL	Lecturer in Electrical Engineering, Sidhu Kanhu Birsa Polytechnic, Keshiary, Paschim Medinipur, West Bengal	 <b>ARNAB KUMAR MONDAL</b> Lecturer in Electrical Engineering Sidhu Kanhu Birsa Polytechnic, Keshiary, Paschim Medinipur, West Bengal

**Figure 11: Certificate on conduction of Green audit and Energy Audit for the AY 2022-2023 at Government General Degree College Keshiary**





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**Madhumita Maitra**

M. Sc. Ph.D

Assistant Professor

Department Of Microbiology (U.G. and P.G.)  
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(Under University of Calcutta)

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Kolkata - 700016

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email: madhumitamaitra@sxccal.edu

Date: 26th June 2023

To

The Officer-in-charge  
Govt. General Degree College, Keshiary  
Keshiary

Subject: Water analysis report of the Govt. General Degree College, Keshiary (WB).

Dear Sir,

With regard to the letter no.98/GGDCK/2023 dated 27.03.2023, I hereby accept the invitation for conducting the water analysis report of the Govt. Gen. Degree College, Keshiary with reference to its Green audit and Energy audit related survey. The analysis of the three water samples were carried out collected from three different sources inside college premises. Various analytical tests were carried out and it was found that the filtered water is the potable water that is fit for consumption. The detailed analysis report is attached herewith for reference.

Thanking you,

  
26.06.23  
Dr. Madhumita Maitra  
Assistant Professor



Residence: SONARTORI, 79- DUM DUM PARK, KOLKATA - 700055

Figure 12: Certificate on the fitness of water for consumption: A Report of Water Quality Analysis conducted by Dr. Madhumita Maitra, St. Xavier's College (Autonomous), Kolkata



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Report on the Water Quality Analysis in Elaboration (03 pages)

## Water Quality Assessment Report Government General Degree College, Keshiary

Paschim Medinipore [West Bengal]

Prepared By: Dr. Madhumita Maitra  
Assistant Professor  
Department of Microbiology  
St. Xavier's College,  
30 Mother Teresa Sarani,  
Kolkata - 700016  
9831337928

Date: 26<sup>th</sup> June 2023

The objective of water quality monitoring is to obtain qualitative and quantitative information on the physical, chemical, and biological characteristics of water via statistical sampling methods. Though there are many methods of analysis we have focussed on the biological characterisation of the provided water samples from the above mentioned college premises.

- Three water samples were provided namely – 2 Tap water samples (Student section & Main building) and 1 filtered water sample (Main building).

Test Performed –

1. pH of the water samples.
2. Most Probable Number [MPN] of enteric lactose fermenting bacteria.
3. Pathogenicity of bacterial growth.
4. Determination of Chlorine content.

### Results of the Test performed -

pH of the water samples were found to be –

1. Tapwater 1 Student section [T1] – 6.2
2. Tapwater 2 Main building [T2] – 6.3
3. Filtered water Main building [FW] – 6.6

### MPN Analysis –

The MPN index per 100ml for different water samples were found to be:

1. Tapwater 1 [T1] – 2
2. Tapwater 2 [T2] – 2
3. Filtered water [FW] – Less than 2

Bacterial growth was found in Tapwater water 1 and Tapwater water 2 but no gas production in Durham's tubes. Hence, lactose fermenting bacteria were found to be absent.



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**Pathogenicity of bacterial growth:**

Since bacterial growth was found in MPN test in sample T1 and T2 but no gas production, it was further analysed to check pathogenicity of the bacteria. The samples were inoculated on the Blood Agar media and allowed to incubate for 48 hrs.

The bacterial growth does not produce a hemolytic zone, hence no change to the RBCs, and the medium remain opaque red. This lack of hemolysis infers that the **bacteria are not pathogenic** and harmful.

**Chlorine content:**

The amount of chlorine was determined in three water samples and found to be as follows –

1. Tapwater 1 [T1] – 0.6mg/l
2. Tapwater 2 [T2] – 0.5mg/l
3. Filtered water [FW]- 0.2mg/l

**Analysis of the results -**

Routine surveillance of drinking water supplies should be carried out by the relevant authorities to understand the risk of specific pathogens and to define proper control procedures.

1. The pH of the water samples were found to be suitable for consumption.
2. The MPN analysis showed some bacterial growth in Tapwater but no growth at all in filtered water. This showed that the filtered water is most suitable for consumption. However the bacteria found in Tapwater were found to be non-pathogenic, as they do not exhibit any hemolysis on Blood Agar medium.
3. The chlorine content were a little higher in Tapwaters due to chlorination done in water supply. However it was reduced in filtered water making the filtered water fit for consumption. All the results therefore shows that the filtered water can be classified as the **Potable water** fit for consumption.

**Suggestions:**

1. A regular analysis with an interval of 6-7 months should be carried out to have a routine reporting of the year.
2. Few other biochemical tests like dissolve oxygen, biochemical oxygen demand, phosphate and nitrate should be analysed, if possible.

*M. Maitra* 26.06.23  
Dr. Madhumita Maitra  
Assistant Professor





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## References:

Following range of values are used as references for the water quality analysis of Potable water –

1. pH of the potable water - recommended pH level between 6.5 to 8.5.
2. MPN analysis - WHO standard for drinking water shows water sample should have an MPN value of 2.2 MPN/100 ml of water (Addo et al., 2009).
3. Chlorine levels up to 4 milligrams per liter (mg/L or 4 parts per million (ppm)) are considered safe in drinking water.
4. Culture in Blood Agar media - The water destined for human consumption should be free from all microorganisms, although in practice, this is an unattainable goal. While heterotrophic bacteria are a part of the natural flora of most surface and ground waters, no pathogens should be present.

Dr. Madhumita Maitra

Assistant Professor





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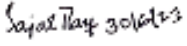
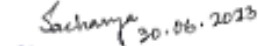

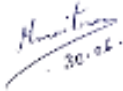

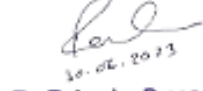

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GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY: GREEN AUDIT & ENERGY AUDIT REPORT, 2022-2023			
			2
<b>1. Disclaimer</b>			
<p><i>The Green Audit and Energy Audit Team</i> has prepared this report on the basis of primary data collected from Government General Degree College, Keshiary. The report has been prepared with utmost care considering every detail as far as practicable. The Green Audit and Energy Audit Report of Government General Degree College, Keshiary for the Academic Year 2022-2023 is hereby authenticated.</p>			
SL. NO.	NAME	DESIGNATION & AFFILIATION	Signature with Seal
1.	DR. SAJAL RAY	Professor in Zoology, Department of Zoology, University of Calcutta, Kolkata, West Bengal	 Dr. Sajal Ray Professor Zoology Department Calcutta University
2.	DR. SAGAR ACHARYA	Assistant Professor in Zoology, Department of Zoology, Vidyasagar University, Paschim Medinipur, West Bengal	 30.06.2023 DR. SAGAR ACHARYA Assistant Professor Department of Zoology VIDYASAGAR UNIVERSITY Medinipur - 72102
3.	DR. SUJIT KUMAR BHOWAL	Associate Professor in Zoology, Department of Zoology, Maulana Azad College, Kolkata, West Bengal	 29/6/23 Dr. Sujit Kumar Bhowal WDDC Associate Professor of Zoology Higher Education Dept. Govt. of West Bengal Maulana Azad College, Kpt - 1
4.	DR. MADHUMITA MAITRA	Assistant Professor in Microbiology, Department of Microbiology, St. Xavier's College (Autonomous), Kolkata, West Bengal	 30.06.23 
5.	DR. RAJENDRA PRASAD DE	Assistant Professor in Botany, Department of Botany, Government General Degree College, Mohanpur, Paschim Medinipur, West Bengal	 30.06.2023 Dr. Rajendra Prasad De Assistant Professor (WBES) Dept. of Botany Mohanpur Govt. College Govt. of West Bengal
6.	ARNAB KUMAR MONDAL	Lecturer in Electrical Engineering, Sidhu Kanhu Birsu Polytechnic, Keshiary, Paschim Medinipur, West Bengal	 H.O.D. Electrical Engg S.K.B. Polytechnic, Keshiary Paschim Medinipur - 721133 Govt. of West Bengal

**Figure 13: Certificate on conduction of Green audit and Energy Audit for the AY 2022-2023 at Government General Degree College Keshiary**



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**Figure 14:** Certificate of appreciation for securing 1<sup>st</sup> and 2<sup>nd</sup> position by Disha Barman and Bidisha Giri respectively, students of GGDC, Keshiary in the Online Poster Making Competition organised by the District Tobacco Control Cell, District Health and Family Welfare Samity, Paschim Medinipur on the occasion of World No Tobacco Day, 31.05.2022. Moreover, Disha Barman secured 3<sup>rd</sup> position in the Slogan Competition on the same issue.



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**Figure 15:** Recipients of 1st prize by Tanima Pal, a student of third semester,2023 from the Government General Degree College, Keshiary in debate and oration competition of the Yuva Samvad : India @ 2047 organised by Government General Degree College, Narayangarh on 09.02.2024



**Figure 16:** Participation and recipient of 1st position by the student of Government General Degree College, Keshiary in debate and oration competition in the Yuva Samvad : India @ 2047 organised by Government General Degree College, Narayangarh on 09.02.2024



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**Figure 17:** Recipients of 1st prize by Labani Maity, a student of fourth semester, 2024 of the Government General Degree College, Keshiary in debate and oration competition of Yuva Samvad : India @ 2047 organised by Hijli College on 09.02.2024



**Figure 18:** Team Government General Degree College, Keshiary comprising Labani Maity and Tanima Pal secured 5th position in the Inter College Debate Competition organised by the Department of Consumer Affairs, Govt. of West Bengal and the Consumer Affairs and Fair Business Practices, Paschim Medinipur on 21.01.2024.





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**Figure 19:** Certificates of achievements of Labani Maity and Tanima Pal from Government General Degree College, Keshiary for securing 5th position in the Inter College Debate Competition organised by the Department of Consumer Affairs, Govt. of West Bengal and the Consumer Affairs and Fair Business Practices, Paschim Medinipur on 21.01.2024.



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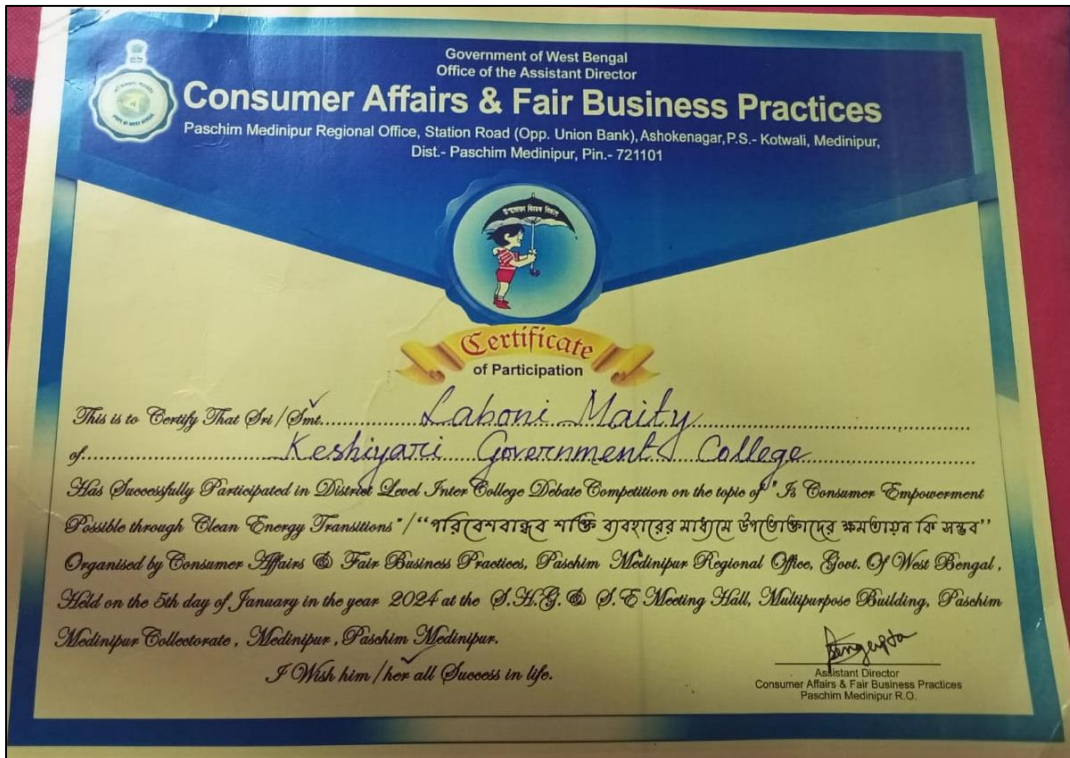
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**Figure 20:** Certificates of achievements of Labani Maity from Government General Degree College, Keshiary for securing 5th position in the Inter College Debate Competition organised by the office of the Consumer Affairs and Fair Business Practices, Paschim Medinipur, Government of West Bengal on 05.01.2024 on the issue of "Is it possible to Empower the Consumers by Promoting Use of Environment-Friendly Power".