



**MANOHARI DEVI KANOI GIRLS' COLLEGE**  
**DIBRUGARH, ASSAM**  
**GREEN AND ENVIRONMENT AUDIT REPORT**



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## FOREWORD

Due to the harmful effects of human activities on the environment like pollution, overpopulation, waste disposal, climate change, global warming, the greenhouse effect, etc the present world is facing severe environmental threats. To meet with this crisis situation, in the present times, various environment protection programs are being practised at the individual, organizational and governmental levels with the aim of establishing a balance between man and the environment.

In this regard, all the stake holders including higher education institutions are supposed to play a crucial and positive role for the protection and conservation of environment. Institutions like ours can also play an instrumental role by creating awareness within and outside the campus, in this regard. Therefore, MDKG College has pledged to do the needful and making effort to take up environmental free initiatives. It has been practising eco friendly activities like Ban on Plastics within the Campus, proper disposal of residual water used during science practicals, installing solar panels for electricity, initiatives for rainwater harvesting, facilitating clean drinking water and RO water purifications system, regular practice of cleanliness activities in and out the campus, organising awareness programmes for the protection and promotion of environment and so on and so forth.

**Green Audit Team:** The Environment Audit Team of MDKG College Comprises of:

1. Dr. Nibedita Phukan, Principal
2. Dr. Utpal Sut, IQAC Coordinator
3. Dr. Anita Sharma
4. Dr. Sukanya Boruah, Member
5. Dr. Bornali Nath Dowerah, Member
6. Dr. Mitali Sonowal, Member

### **Objectives of Green Audit:**

Environmental protection is the practice of protecting the natural environment against various human activities that degrade, destroy, or otherwise reduce its quality for future generations. Environmental protection has become a widespread issue in recent decades as human pressures on the environment have increased exponentially. To protect the environment, we should be conscious of what we consume and how we consume it. Many factors affect the quality of our air, water, and land, but it is best to start small by always considering its impact on the environment. Afforestation and tree plantation help protect our environment by reducing global warming, soil erosion, etc. We can reduce our carbon footprint through carpooling instead of driving, which is cheaper and reduces our energy usage and emissions. Keeping in view these premises, the main objectives of this green audit is to assess the quality of environment in the college campus and also to ensure the implementation of environmental friendly measures in the college premises and outside.

More specifically, the objectives of Green Audit are:

1. To assess the quality of water and also minimise its consumption
2. To monitor waste generation and management in the campus.
3. To ensure optimum utilisation of resources in the campus
4. To ensure installation of devices that reduces pollution
5. To ensure safety of all the stake holders
6. To empower the stakeholders to contribute in the safety and protection of environment
7. To promote safe and clean environment

Environment Policy of College: The institutional initiatives for greening the campus area are as follows: The College Campus is made plastic-free. Dustbins are installed in every part of the college premises. Posters and banners are put up in college campus carrying messages of environmental awareness. Effort is made to keep the greenery of the campus and keep its environment hazard-free. Automobiles are strictly restricted except a few personal vehicles of the teachers and staffs in the campus. Bicycles are in use and many students and staff use bicycles as their mode of transportation. Adjacent to the college campus pedestrian friendly

pathways are available to facilitate the movement of the students. As plastic is threatening to life and environment the institution prevents the use of plastics inside the campus. In fact, the institution has declared itself as a plastic-free zone. The college canteen is plastic –free and cutleries and steel utensils are used for daily requirement instead of plastic. The institution has initiated the process of landscaping of trees and green audit measures and preliminary discussion has been held with the Rain forest department.

## **Introduction**

### **1. About the College**

#### History-establishment, Area, Affiliation

The Dibrugarh town has a glorious history of women's education in Northeast India. It was in Dibrugarh District that the first Girls' High School was established in Assam in 1885, which is now known as Dibrugarh Govt. Girls' Higher Secondary and multipurpose school. Earlier, girls had to go outside Assam to complete High School with the help of scholarship granted by the State Government.

In 1945 with the establishment of the Dibrugarh College (renamed D. H. S. K. College) higher education was brought within periphery of the local people and many girl students got enrolled. Gradually the number of girl students increased such that the idea of a separate college for women was pitched. Soon the idea was implemented into action and MDKG College came into existence. The genesis of M. D. K. G. College was materialised in a Governing Body meeting of D.H.S.K.College, held on 29th August 1960. In the meeting, the members of the Governing Body which was chaired by HanumanbuxKanoi stressed on the establishment of a Women's College in Dibrugarh. The Chairman assured that he would bear the cost of the building's construction if the college would be named after his wife, Manohari Devi Kanoi. Thereafter, a Sponsoring Committee was formed and the process for establishing the college began. The college started functioning on 5th July 1963 under the principalship of Dr. JogirajBasu, noted Oriental scholar and classes were held in the morning in DHSK college premises. The college offering Humanities courses shifted to its present campus in 1965, where classes were held in a DFO Bungalow. Starting with the total strength of 215 the college has now an enrolment of approximately 1800 students. It is affiliated to Dibrugarh

University and its Higher Secondary Course is recognised by Assam Higher Secondary Education Council, AHSEC. It is a UGC recognised college under section 2(f) and 12(B).

Campus Infrastructure and other inputs

- M. D. K. G. College embarked on a new journey with the laying of the foundation stone for a new building in the first week of July 2011 in its second campus. It was decided that in order to bridge the gap of women education in science, the college would introduce Science stream in the second campus from the academic session 2016-17. Thus, under the initiative of the present Principal, a new state-of-the-art building was constructed. Accordingly, classes started in the later part of June 2016 with 119 students. At present, the college has 20 subjects, viz, Assamese, Bengali, Botany, Chemistry, Computer Science, Economics, Education, English, Geography, Hindi, History, Home Science, Mathematics, Philosophy, Physics, Political Science, Sanskrit, Sociology, Statistics and Zoology. Major is offered in 15 subjects. The faculty members (42 permanent and 14 temporary) are highly qualified with 19 teachers having Ph.D. and 13 teachers having M.Phil degrees. A significant number of teachers are pursuing their Ph.D. The college is supported by a team of dedicated teaching and non-teaching staff. The college has been accredited by NAAC on 2004 and 2011 with B++ and B (CGPA 2.9) grades respectively.

- The empowerment of students through a holistic approach towards their overall development is our motto. Over the years, the college has been successful in producing students who have performed extremely well in the university examinations and have opted for higher education. Furthermore, the college boasts of an illustrious alumna serving not only the country but also is spread far and wide. The teachers have contributed towards the enhancement of the academics and the general excellence of the institution and towards making the college achieve its present reputation.

- The college organises various symposia, workshops, seminars, special talks, awareness and sensitisation programmes, camps etc. through its various cells, committees and clubs. The college also holds a number of career counselling programmes every year for making the students aware of different career opportunities after completion of their UG studies.

The college is centrally located at Kadamoni 11/2 K.M. from the Dibrugarh Railway Station and the city is well connected by roads, railways & airways.

## **2 .Vision and Mission of the College**

### **Vision**

- To provide the best environment for teaching, learning, innovation and character building in order to facilitate the framework of an enlightened, just and sustainable society.

### **Mission**

- To instill in students pedagogic as well as social values;
- To foster latent talents thus creating a congenial atmosphere to take up future challenges;
- - To mould the students to understand the various roles in life to assign to them and be equal in the execution of these roles with perfection.

## **3 .Goals and Objectives of the study**

The main objectives of carrying out Green Audit are:

- To identify, quantify and prioritise framework of Environment Sustainability in compliance with the applicable regulations, policies and standards;
- To secure the environment and curtail the threats posed against human health by analysing the pattern and extent of resource use on the campus;
- To bring out a status report on environmental compliance;
- To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections require high cost.

#### 4. Strategic Plan of the College

Both the teaching and non-teaching staff of the institution are committed towards activities that concern sustainable development. This we will achieve through the following strategies:-

- i. Sensitise the students and staff regarding judicious use of water;
- ii. Bring in use the 'Rain Water Harvesting' on the campus;
- iii. To maximise the use of ICT and minimise the use of paper. It will help to go towards 'Paperless Office' (already implementing it, however);
- iv. Use the solid waste through vermin-compost on the campus and use it as a fertiliser. Production of vermi-compost and selling it commercially for resource generation. The vermi-compost plant has already been installed in the science campus of the college. The plant is operational and the institution plans to produce vermi-compost for in-campus and professional requirements in the future;
- v. To protect and nurture the flora and fauna on the campus;
- vi. To create a vertical garden in the campus and increase the aesthetic appeal of the campus. Moreover, endeavours will be made to preserve indigenous medicinal plants in the garden.

**5. Awareness and Tree Plantation Programme:** The college has been regularly conducting awareness programmes in and out the campus. It has been arranging rallies and camps on various occasions in relation to environment and its related issues. Besides the National Service Scheme (NSS) and National Cadet Corps (NCC) wings of the college undertakes pro-environment activities like tree plantation, cleanliness programme on occasions like Environment Day, Teachers' Day etc.



No: 1

**ACTIVITY REPORT ON  
OBSERVATION OF WORLD  
ENVIRONMENT DAY ON JUNE  
5TH 2018**

Observation of World Environment Day 5th June 2018 was organized by NSS, NCC, Eco Friends' Club & Student Union of MDK Girls' College, Dibrugarh, Assam. Activities undertaken were: Plantation at two Govt. Schools of Dibrugarh town, Poster competition on the theme 'Beat Plastic Pollution', inauguration of Wall magazine and Lecture on "Beat Plastic Pollution" was delivered by Invited Resource Person Dr. Diganta Sharma, D.U.



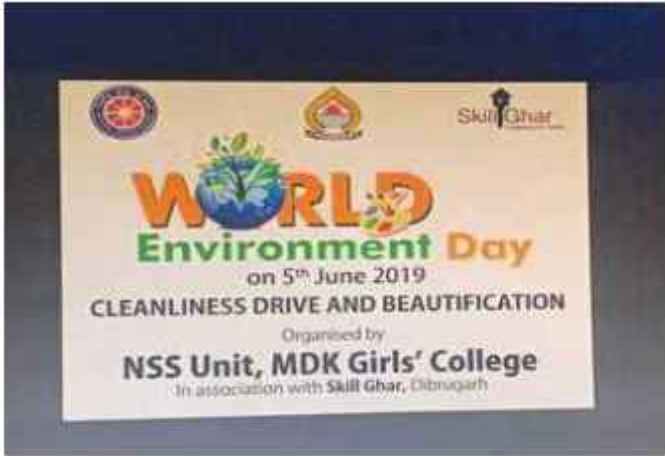


No: 2

**ACTIVITY REPORT ON  
OBSERVATION OF WORLD  
ENVIRONMENT DAY ON 5<sup>TH</sup>  
JUNE, 2019**

Observation of World Environment Day 5th June 2019 was organized by NSS Unit in association with Skill Ghar, Dibrugarh. Activities carried out were cleanliness drive and beautification of the College and also Quiz and Extempore speech competition among the students of the college was organized on the day.





**No: 3**

**ACTIVITY REPORT ON**  
**AWARENESS PROGRAMME**  
**ON CLEANLINESS AND**  
**TOBACCO FREE CAMPUS ON**  
**12<sup>TH</sup> FEBRUARY, 2020**

NSS Unit of MDKG College organized an awareness programme on Cleanliness and Tobacco Free campus at DurgaMandir L.P School, Dibrugarh





No: 4

**ACTIVITY REPORT ON**  
**CLEANLINESS AND AWARENESS PROGRAMME**  
**CONDUCTED AT BOOK FAIR, CHOWKIDINGHEE FIELD**  
**ON 12<sup>TH</sup> MARCH, 2021**





### OBSERVANCE OF WORLD ENVIRONMENT DAY (4<sup>TH</sup> JUNE, 2022)

- On the occasion of 'World Environment Day- 2022' on 4<sup>th</sup> June, 2022, Eco Club MDKG College organized an Awareness talk on '*Climate Change*' which was delivered by the invited guest of honour, PADMASHREE AWARDEE- 'THE FOREST MAN OF INDIA'- JADAV PAYENG. His talk emphasized towards bringing sustainable development, to act wisely for survival. He also emphasized to focus the aspects of environment more naturally rather than displaying it digitally. He also shared his life long journey towards his noble goal.
- Plantation and Wall magazine inauguration was also done by the guest of honour.

**MANOHARI DEVI KANOI GIRLS' COLLEGE**  
**Observance of World Environment Day**  
 Organised by  
 Students Union 2021-2022, M.D.K.G. College, Dibrugarh  
 In collaboration with  
 ECO Club and Department of Botany, M.D.K.G. College, Dibrugarh

*Invited Guest of Honour*  
**Padmashree Awardee**  
**"THE FOREST MAN OF INDIA"**  
**JADAV PAYENG**

Date: 04 June 2022  
 Time: 10 am onwards  
 Venue: Auditorium, MDK College







No: 5

**ACTIVITY REPORT ON  
OBSERVATION OF BAN  
MAHOTSAV WEEK  
7<sup>th</sup> July, 2021**

Ban Mahotsav week online Poster competition among the volunteers, Quiz compt and plantation drive at their residence and spreaded the message of need for plantation.





## ACTIVITY REPORT ON

### 'Chief Minister's Institutional Plantation Program' as a part of 'AzadiKaAmritMahotsav' a Plantation drive was carried out at Dibrugarh University on 3<sup>rd</sup> August, 2022

- A Plantation Programme under the Scheme of Chief Minister's Institutional Plantation Programme (CMIPP) in celebration of 'AzadiKaAmritMahotsav' commencing from 15/07/2022 to 15/08/2022 was organised by MDKG College, Dibrugarh Assam on 3<sup>rd</sup> August, 2022. The Plantation site was undertaken at Dibrugarh University (Administrative Building



Premises). The programme was graced by Dr. Jiten Hazarika (Vice Chancellor Dibrugarh University), Dr. Paramananda Sonowal (Deputy Administrative Registrar, D.U), Dr. Prasanta Kumar Kakoty (Controller of Examination, D.U) and officials of Dibrugarh University.

- Further the Programme was initiated by Dr. Nibedita Phukan, (Principal, MDKG College), Dr. Anju Borah (Vice- Principal, MDKG College), Dr. Utpal Sut (IQAC Coordinator, MDKG College), Mr. Utpal Gogoi (NSS Coordinator, MDKG, College), Dr. Mitali Sonowal (Eco Club Coordinator, MDKG College), Ms. Sangita Gogoi (Member of Eco Club, MDKG College), Mr. Raj Jyoti Gogoi (Asst. Prof. Deptt. of Chemistry, MDKG College). The Office Staff, NSS Volunteers, and Students of MDKG College.
- Moreover, 5 saplings (*Fox Tail Palm plant*) were planted by all the members present at the programme to mark the valuable initiative under the scheme of CMIPP in celebration of 'Azadi Ka Amrit Mahotsav, 2022'.





## ACTIVITY REPORT ON

### CLEAN INDIA ON 4<sup>TH</sup> OCTOBER, 2022

Program of Clean India on 4<sup>th</sup> October, 2022  
Activities carried out:

1. Cleaning run way at Sri SriDurga Puja site of Grahambajar, Dibrugarh



**CLEAN INDIA CAMPAIGN**  
Date: 1<sup>ST</sup> - 31<sup>ST</sup> October, 2022  
*Cleanliness is next to Godliness*  
**Organized by:**  
NSS Unit, MDKG College, Dibrugarh





## ACTIVITY REPORT ON

### OBSERVANCE OF AMRIT BRIKSHA ANDOLAN AT ADOPTED VILLAGE (NAGAKHELIA GAON)

- On 17<sup>th</sup> September, 2023, NSS Unit of MDKG College has organized a Plantation drive at the adopted Village of MDKG College (NagakheliaGaon) to fulfill the 'AmritBrikshaAndolan'.
- Total 13 NSS volunteer and Co-ordinator of adopted Village UtpalGogoi Sir have participated in the plantation drive.
- Moreover, Cleanliness drive has also been conducted in the Village area.



Cleanliness Drive at the adopted Village



Certificate Sample copy of Volunteers participation

**ACTIVITY REPORT ON**  
**SWACHHTA HI SEVA CAMPAIGN 2023**  
**15<sup>TH</sup> SEPTEMBER TO 02<sup>ND</sup> OCTOBER, 2023**

*With reference to the letter from Ministry of Youth Affairs and Sports, Regional Directorate of NSS, Guwahati (F.No. 5/13/NSS-NER/2023-24/1808) dated 20-09-2023), the following activities were organized by NSS Unit of M.D.K. Girls' College Dibrugarh, Assam.*

S. N	Activities Date	Activities conducted
1.	17 <sup>th</sup> September, 2023	1. Cleanliness drive at the adopted Village (Nagakhelia Gaon, Dibrugarh)
2.	1 <sup>st</sup> October, 2023	1. Swachhta Pledge taking ceremony. 2. A Cleanliness Drive within the College campus and nearby area. 3. In addition NSS unit also participated in the Mass Cleanliness drive organized by Dibrugarh Municipality Board, Dibrugarh, at DTP Dyke, Dibrugarh, Assam 4. Uploaded at: <a href="https://x.com/mdkgcollege/status/1708541536420679823?t=AE3IM8GdUW3yiuNQlhrLNg&amp;s=08">https://x.com/mdkgcollege/status/1708541536420679823?t=AE3IM8GdUW3yiuNQlhrLNg&amp;s=08</a>

**ACTIVITY NO: 1**

- On 17<sup>th</sup> September, 2023, NSS Unit of MDKG College has conducted a Cleanliness drive at the adopted Village of MDKG College (Nagakhelia Gaon, Dibrugarh)
- Total 13 NSS volunteers, 01 Co-ordinator of adopted Village, 01 Office Staff and Village people also participated in the Cleanliness drive.







### ACTIVITY NO: 2

- On 1<sup>st</sup> October, 2023, activities under SHS 2023 were:
  - Swachhta Pledge taking ceremony.
  - A Cleanliness Drive within the College campus and nearby area.
  - In addition NSS unit also participated in the Mass Cleanliness drive organized by Dibrugarh Municipality Board, Dibrugarh, at DTP Dyke, Dibrugarh, Assam
- Total 25 NSS volunteers, 01 NSS P.O and 01 Office Staff participated in the Swachhta Pledge taking ceremony and Cleanliness drive.

**UNDER THE BANNER OF  
'SWACHHTA HI SEVA CAMPAIGN'**  
15<sup>th</sup> September - 01<sup>st</sup> October, 2023

**Activities undertaken:**

- Cleanliness Drive at College Campus & Near by Area
- Swachhta Pledge taking ceremony

*Jointly organised by:*  
**NSS Unit, NCC Wing, Yuva Tourism Club & Eco Club of  
M.D.K. Girls' College, Dibrugarh, Assam**

**Date: 01-10-2023 Time: 10:00 a.m.**  
*#Swachh Bharat #Garbage Free India #SHS 2023*

**Certificate of Appreciation**

This is to certify that

**M.D.K. Girls' College**

Has contributed in  
Shramdaan for Swachh Bharat  
On  
1<sup>st</sup> October, 2023, at 10 AM

**A Swachh Bharat Mission Initiative**

**SWACHHTA PLEDGE**

Mahatma Gandhi dreamt of an India which was not only free but also clean and developed.

Mahatma Gandhi secured freedom for Mother India.

Now it is our duty to serve Mother India by keeping the country neat and clean.

I take this pledge that I will remain committed towards cleanliness and devote time for this.

I will devote 100 hours per year, that is two hours per week, to voluntarily work for cleanliness.

I will neither litter nor let others litter.

I will initiate the quest for cleanliness with myself, my family, my locality, my village and my work place.

I believe that the countries of the world that appear clean are so because their citizens don't indulge in littering nor do they allow it to happen.

With this firm belief, I will propagate the message of Swachh Bharat Mission in villages and towns.

I will encourage 100 other persons to take this pledge which I am taking today.

I will endeavour to make them devote their 100 hours for cleanliness.

I am confident that every step I take towards cleanliness will help in making my country clean.



NSS unit participated in the Mass Cleanliness drive organized by Dibrugarh Municipality Board, Dibrugarh, at DTP Dyke, Dibrugarh, Assam



❖ Cleanliness Drive at College Campus



**List of NSS Volunteers of MDKG College, Dibrugarh for 01-10-2023  
Swachhta Hi Seva Campaign**

S.N	NAME OF P.O & NSS VOLUNTEERS	
•	Dr. Mitali Sonowal (NSS P.O)	Mitali 01/8/23
•	Uday Yadav (Office assistant)	Uday Yadav
1	Nandini Bhattacharjee	Nandini Bhattacharjee
2	Shreyashi Dey	Shreyashi Dey
3	Sanjana Bhowmick	Sanjana Bhowmick
4	Jyotiska Gogoi	Jyotiska Gogoi
5	Disha Boruah	Disha Boruah
6	Olipriya Horo	Olipriya Horo
7	Angkita Dey	Angkita Dey
8	Sarin Nisha	Sarin Nisha
9	Aparna Dey	Aparna Dey
10	Disha Ghosh	Disha Ghosh
11	Sanskriti Sharma	Sanskriti Sharma
12	Junali Dutta	Junali Dutta
13	Amisha Moran	- Absent
14	Anshu Pandey	Anshu Pandey
15	Mahzabin Hussain	Mahzabin Hussain
16	Nikhita Chetia	- Absent
17	Jasshi Chetia	Jasshi Chetia
18	Udipta Das	Udipta Das
19	Sukanya Gogoi	Sukanya Gogoi
20	Pratiksha Kumari	Pratiksha Kumari
21	Jeenat Parveen	Jeenat Parveen
22	Anamika Tanti	Anamika Tanti
23	Nikita Sharma	Nikita Sharma
24	Barakha Gogoi	Barakha Gogoi
25	Silakhi Hazarika	Silakhi Hazarika
26	Akansha Gogoi	Akansha Gogoi
27	Shaheen Aziz Khan	Shaheen Aziz Khan
28	Bagmita Dihingia	Bagmita Dihingia

### 7. Soil Pollution Management:

#### *Plastic free campus*

The college has been working to eliminate plastic from the campus by educating staff and students about the issue through posters and other initiatives. Reusable utensils are another collegiate habit that has contributed to the campus's lack of plastic.

### 8. No Smoking and Tobacco free Campus

Smoking and the use of tobacco products are strictly prohibited on college property, and using them is penalized by the college administration. Regarding this, the disciplinary committee oversees the matter, and there are also notices posted in various locations across the college. Creating a tobacco-free environment within educational institutes is paramount for fostering a healthy and conducive learning environment. By implementing such policies, institutions not only protect the health and well-being of their students, faculty, and staff but also set a positive example for the broader community. Tobacco use not only poses significant health risks, including various cancers and respiratory diseases, but it also detracts from academic focus and productivity. Moreover, by promoting a tobacco-free campus, educational institutions actively contribute to the prevention of tobacco initiation among young adults, thereby reducing the likelihood of lifelong addiction. Ultimately, a tobacco-free educational

environment promotes overall wellness, enhances academic performance, and cultivates a culture of health and respect. Keeping in view these serious concerns, the college has been declared as a tobacco free institute. Use of any tobacco products is strictly prohibited within the premises of the college.

#### **9. Display boards in College Campus:**

The college has several notice boards regarding noise reduction, conservation, water conservation, environmental awareness, and a tobacco-free campus.

**10. Noise Pollution Management:**As the institution is very near to the road,there is the necessity of managing noise pollution.The Stake holders are very conscious about this fact.

Since pressure horns are prohibited in the college campus, neither staff members nor students utilize them to reduce noise levels. In addition, a number of notice boards have been put up in the college's library and other locations to promote quiet.

#### **11. Human Health and Safety management:**

#### **No: 1**

#### **ACTIVITY REPORT ON OBSERVATION OF WORLD BLOOD DONAR DAY ON 13<sup>TH</sup> JUNE, 2018**

Observation of World Blood Donar day on 13<sup>th</sup> June, 2018 was organized by the NSS Unit of MDKG College.



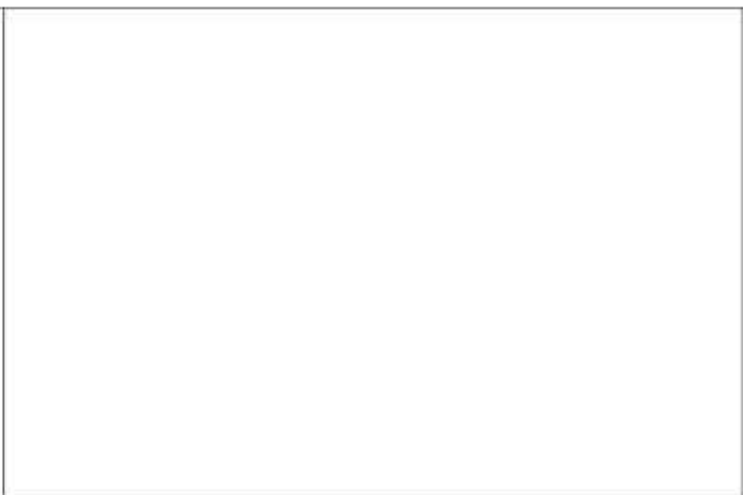
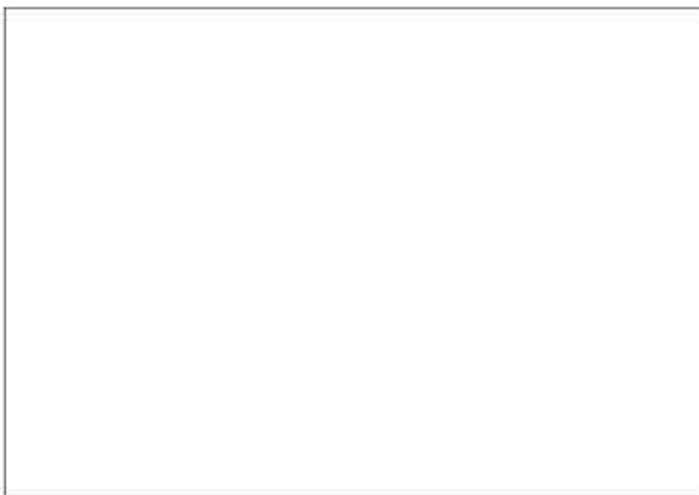


**No: 2**

**ACTIVITY REPORT ON**  
**NATIONAL BLOOD DONATION**  
**DAY ON**  
**1<sup>ST</sup> OCTOBER, 2018**

National Blood donation day was organized on 1<sup>st</sup> Oct, 2018 collaboratively by NCC, NSS Unit and Students Union of MDKG College.





**No. 3.**

**ACTIVITY REPORT ON  
BLOOD DONATION CAMP ON 6<sup>TH</sup> JUNE,  
2022**

- On 6<sup>th</sup> June, 2022, awareness programme and Blood Donation camp was organised by the NSS Unit of MDKG College, Dibrugarh.
- Total 7 Unit of blood were donated by the NSS Volunteers, NCC Cadets of MDKG College, Dibrugarh.





**No: 4**

**ACTIVITY REPORT ON**  
**ROAD SAFETY AWARENESS**  
**ON 6<sup>TH</sup> FEBRUARY, 2021**







Dibrugarh, Assam, India  
 KC Gogoi Path, Dibrugarh, Assam 786001, India  
 Lat N 27° 28' 44.7132"  
 Long E 94° 55' 21.6187"  
 06/02/21 02:57 PM



Dibrugarh, Assam, India  
 KC Gogoi Path, Dibrugarh, Assam 786001, India  
 Lat N 27° 28' 44.832"  
 Long E 94° 55' 21.6372"  
 06/02/21 02:56 PM

**No. 5**

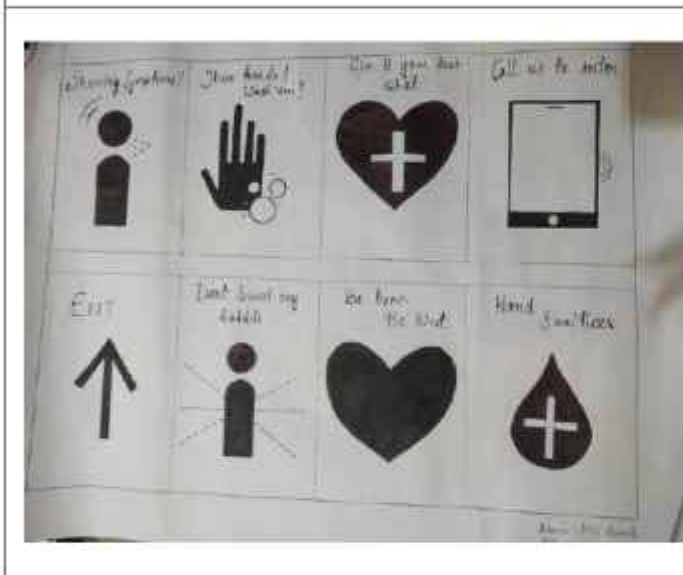
**ACTIVITY REPORT ON**  
**AWARENESS ON PANDEMIC**  
**SITUATION AT THE ADOPTED VILLAGE**  
**NAGAKHELIA GAON ON**  
**12<sup>TH</sup> APRIL, 2021**

NSS volunteers visited at NagakhaliaGaon and made them aware about the pandemic situation. They also circulated different guidelines and restriction formulated by Govt of India as well as Assam among the villagers. Above all they were trying to make them convince for taking vaccine. Poster Competition among the NSS Volunteers

You tube Link:  
[https://youtube.be/WNF\\_HekcQoU](https://youtube.be/WNF_HekcQoU).



Dibrugarh, Assam, India  
 Unnamed Road, Dibrugarh, Assam 786003, India  
 Lat N 27° 27' 50.0364"  
 Long E 94° 52' 29.6832"  
 12/04/21 01:08 PM



### 13. Waste Management

The wastes generated in the college campus are displayed in the following ways:

#### 1. Solid Waste Management

- 1.1. Lectures and the posting of slogans on boards are used to raise awareness among stakeholders.
- 1.2. Dry and wet trash cans are positioned throughout the college and subsequently removed for appropriate disposal. All the accumulated garbage are collected and sent through municipality vans to the lekai waste recycling plant.

- 1.3. Paper goods are used in place of plastic plates, plastic cups, disposable bottles, and other non-biodegradable waste items in an effort to reduce waste.
- 1.4. NCC and NSS Volunteers gather and store waste in dustbins for later collection on the day of the celebration.
- 1.5. Students are advised not to utilize any plastic or plastic-containing items. Therefore, if it is discovered, dispose of it in the pit designated for such garbage.
- 1.6. Flex utilized as a banner or for publicity is disposed away or repurposed appropriately.
- 1.7. To reduce solid waste, infrastructure is well maintained and furniture is repaired on time.
- 1.8. Sanitary pad dispensers have been installed in the girls' restroom by the college. In the hostel and the restrooms for girls, there are napkin vending machines.

**ACTIVITY REPORT ON**  
**WORKSHOP ON HOW TO USE WASTE MATERIALS**  
**ON 3<sup>RD</sup> MARCH, 2021**



# Workshop on How to Use Waste Material

Resource Person

**Mr. Mahender Raj**

Teacher of Handicapped Children Training Centre  
Vidyakala Mandir Organisation  
New Delhi

Organized by

**NSS Unit and Health and Sanitation Club**

MDKG College, Dibrugarh, Assam

Date: 3.3.2021

Time: 12.20 PM



Dibrugarh, Assam, India  
KC Gogoi Path, Dibrugarh, Assam 786001, India  
Lat N 27° 28' 45.490"  
Long E 94° 55' 23.0268"  
03/03/21 12:21 PM



Dibrugarh, Assam, India  
KC Gogoi Path, Dibrugarh, Assam 786001, India  
Lat N 27° 28' 45.5124"  
Long E 94° 55' 22.900"  
03/03/21 12:19 PM







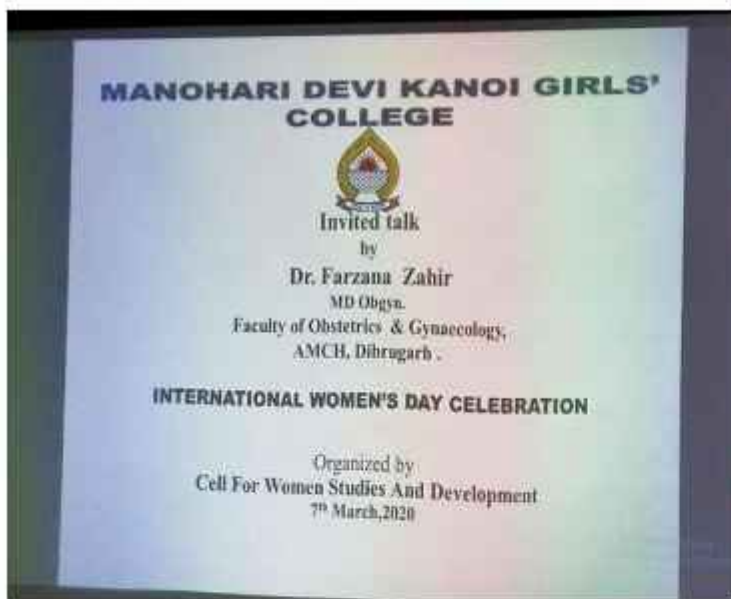


#### 14. Health Awareness Programme:

The college organizes various health awareness programmes, such as World Mensural Hygiene Day, World AIDS Day etc.

No 1. **Subject:** Report on the occasion of “**International Women’s Day**” a talk was organised by **Cell for Women Studies and Development** on 7<sup>th</sup> March 2020 at Manohari Devi Kanoi Girls’ College, Dibrugarh. Dr. Farzana Zahir was invited as guest speaker. She is a faculty member of Obstetrics and Gynaecology, Assam Medical College and Hospital Dibrugarh. She delivered a very informative talk on the topic “**Young Women Health Care Awareness**”.





No. 2: **Subject: Report on Celebration of International Women's Day at NagakheliaGaon, Dibrugarh on 8th March, 2021. Organized by:** Cell for Women's Studies and Development, MDKG College and ACTA Women's Cell, MDKG College Unit. **Venue:** Adopted Village: NagakheliaGaon, Dibrugarh. On the occasion of International Women's Day celebration Prof (Dr.) PranatiMedhi, Department of Pathology, Assam Medical College Hospital, Dibrugarh, Assam was invited. Madam delivered a lecture on **"Role of Women's Health in Nation Building"** to the village women of Nagakhelia Village. Awareness on how to use Sanitary napkins to the village women and Distribution of Sanitary napkins to the village women as well as to our Students.



**No 3. AWARENESS PROGRAM ON 'HEALTH, NUTRITION AND ADDICTION FREE SOCIETY' (Held on 28<sup>th</sup> May, 2023)**



- An awareness program on 'Health, Nutrition and Addiction Free Society' was organized by Cell for Women Studies and Development in collaboration with Psychological Counselling Cell of MDKG College, Dibrugarh, Assam on 28<sup>th</sup> May, 2023 at the adopted village of the College, NagakheliaGaon, Dibrugarh. Resource person (i) Dr. FarhanaShaheen Hussain of Assam Medical College Hospital (AMCH), Dibrugarh, accompanied by Dr. SagolsemMarucharan Devi of Assam Medical College Hospital (AMCH), Dibrugarh was invited for the awareness program.
- The program was participated by 36 participants (which includes the Resource Persons, Faculties & Members of the MDKG College, and the Villagers of NagakheliaGaon)



## 15. E-Waste Management

Old computers, laptops, CDs, printers, scanners, calculators, and other electronic waste are fixed and repurposed. By examining electronic items and updating software at the appropriate times, the college attempts to lower the amount of e-waste. To lessen waste from bulbs, tubes, etc., the college has installed solar street lights in the campus.



Installation of Solar lights

#### **16. Use of LED bulbs in the College**

All of the college's classrooms, the principal's office, the administrative office, the indoor stadium, the computer lab, and the departmental rooms use LED lamps to save energy.

## VERMICOMPOST PROJECT

### MDKG COLLEGE DIRUGARH

The VERMICOMPOST PROJECT was set up in the premises of Campus 2 under the initiative of our respected Principal Ma'am Dr.NibeditaPhukan and the Department of Botany as good practices and greater benefit of MDKG College.

VERMICOMPOST is more commonly called "worm composting". It is basically a managed process of worms digesting organic matter of plant and/or animal origin consisting mainly of finely-divided earthworm castings. VERMICOMPOST supplies nutrients and growth enhancing hormones to plants, improves the soil texture leading to increase in water and nutrient holding capacities of soil.

The organic wastes include all fruits and vegetables, tea, coffee, paper, cardboards, egg shells which are suitable for earthworms as their food. But kitchen wastes like citrus foods, onion, garlic, cooked food, oily food, breads, spices, plastics are not suitable to the earthworms.

It was inaugurated on 19<sup>th</sup> July 2021 by Vice Principal Ma'am Prof. Dr Anju Borah, Prof Purnima Chutia, Dr Purnima Hazarika Saikia, Dr.SukanyaBaruahChaliha and Dr.ShekharPurukastya.



Our first output of VEREMICOMPOST is about 42 kg (Rs 840 i.e. Rs 20/ KG).



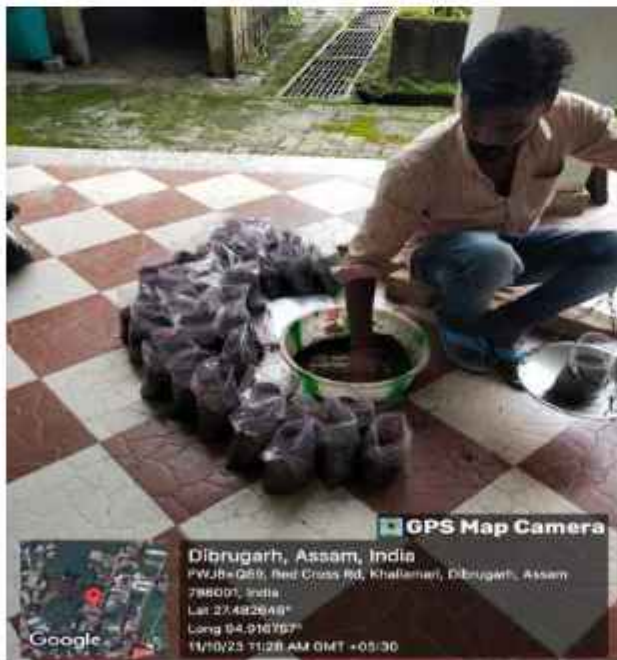


Our second output of VERMICOMPOST is 29 kg. From this lot we sold an amount and remaining we used for our college gardening purpose.

Total vermicompost= 29Kg

College campus uses=13 kg

Total sold= 16kg ( Rs.320)



Handwritten ledger with columns: SL. No., DATE, CUSTOMER NAME, NO. OF BAGS, TOTAL WEIGHT, and SELLING PRICE. The table lists 8 entries of vermicompost sales.

SL. No.	DATE	CUSTOMER NAME	NO. OF BAGS	TOTAL WEIGHT	SELLING PRICE
1.	11/10/23	College Campus	05	20	50
2.	11/10/23	DIYUT	02	08	20
3.	11/10/23	Pranava Sarda	04	16	40
4.	11/10/23	Indra Sarda	02	08	20
5.	11/10/23	Ranga Sarma	02	08	20
6.	11/10/23	College Campus	18	72	180
7.	11/10/23	Ranga Sarma	04	16	40
8.	11/10/23	Pranava Sarda	02	08	20
			58	232	

Total sold → 296 kg  
 College use → 180 kg  
 Total sold → 116 kg

11/10/23  
 15/10/23  
 15/10/23

Our third output of VERMICOMPOST is 26 kg. From this lot we again sold an amount and remaining we used for our college gardening purpose.



Total vermicompost= 26Kg

College campus uses=09 kg

Total sold= 17kg ( Rs.340)



Handwritten table with columns for S.No, Date, Quantity, Price, and Total. The table lists various items and their quantities and prices.

S.No	Date	Quantity	Price	Total
1	23/11/2023	100kg	100/-	100/-
2	23/11/2023	100kg	100/-	100/-
3	23/11/2023	100kg	100/-	100/-
4	23/11/2023	100kg	100/-	100/-
5	23/11/2023	100kg	100/-	100/-
6	23/11/2023	100kg	100/-	100/-
7	23/11/2023	100kg	100/-	100/-
8	23/11/2023	100kg	100/-	100/-
9	23/11/2023	100kg	100/-	100/-
10	23/11/2023	100kg	100/-	100/-
11	23/11/2023	100kg	100/-	100/-
12	23/11/2023	100kg	100/-	100/-
13	23/11/2023	100kg	100/-	100/-
14	23/11/2023	100kg	100/-	100/-
15	23/11/2023	100kg	100/-	100/-
16	23/11/2023	100kg	100/-	100/-
17	23/11/2023	100kg	100/-	100/-
18	23/11/2023	100kg	100/-	100/-
19	23/11/2023	100kg	100/-	100/-
20	23/11/2023	100kg	100/-	100/-
21	23/11/2023	100kg	100/-	100/-
22	23/11/2023	100kg	100/-	100/-
23	23/11/2023	100kg	100/-	100/-
24	23/11/2023	100kg	100/-	100/-
25	23/11/2023	100kg	100/-	100/-
26	23/11/2023	100kg	100/-	100/-
27	23/11/2023	100kg	100/-	100/-
28	23/11/2023	100kg	100/-	100/-
29	23/11/2023	100kg	100/-	100/-
30	23/11/2023	100kg	100/-	100/-

Total = 3400/-  
College = 09 kg  
Total Sold = 17kg (Rs.340)

- The photographs below is of VERMIWASH. Vermiwash is the liquid that is collected after water passess through compost made by earthworms. It is rich in plant growth hormones, micro-nutrients, and major nutrients like nitrogen, phosphorous and potassium.
- It is also known as “vermi tea”.
- Vermiwash is has to be diluted 3-4 times before pouring it to plants.



The students of department of Home Science of MDKG College are also benefitted by hands on practical class from this VERMICOMPOST PROJECT since they have a paper with the topic VERMICOMPOST in their syllabus.





Recently a hands-on session was given by MDKG College to different school students of Dibrugarh District.



Another fresh batch of VERMICOMPOST manure is about to be produced within next month.



**Waste disposal in Chemistry**  
**laboratory Department of Chemistry, MDKG College**

:

Proper waste disposal in a chemistry laboratory is crucial for safety, environmental protection, and regulatory compliance. At the Department of Chemistry, MDKG College, we follow these steps to ensure proper waste disposal:

**1. Identification and separation of Waste**

- **Label Waste:** We label all waste containers to identify different types of waste and separate them accordingly (e.g., organic solvents, acids, bases, heavy metals etc.).

**2. Use of Appropriate Containers:**

- **Chemical Waste:** We use leak-proof and compatible containers made of suitable materials (e.g., glass, plastic) for chemical waste.
- **Sharps Disposal:** Needles, broken glass, and other sharp objects are disposed of in designated sharps containers.

**3. Following proper Disposal Procedures**

- **Guidelines Compliance:** We strictly follow proper guidelines for chemical waste disposal.
- **Sealing and Arranging Disposal:** Once containers are full, we seal them and arrange for proper disposal, ensuring they are disposed of with utmost care.
- **Neutralization and Dilution of Chemical Waste:**
  1. **Acids and Bases:** We neutralize acids and bases to a safe pH level before disposal if allowed by local regulations.
  2. **Dilution:** We dilute all chemical waste before disposal to minimize potential hazards.
- **Way to dispose waste:**
  1. Generally we follow **encapsulation** process for proper disposal of the waste. In this process, we enclose hazardous waste in concrete to prevent release of contaminants into the environment.
  2. Also we dispose waste into **moving water bodies**. But for this process we have

to treat properly the hazardous waste to ensure that it cannot contribute to groundwater pollution.

By following these steps, we ensure that waste disposal in our laboratory is conducted safely, responsibly, and in compliance with all relevant regulations.

Some photographs of collecting of different types of waste in the laboratory:





## AIR QUALITY REPORT

The Air Quality of the institution premises was found good when checked through the online app. AQI Monitor and Weather Forecast. Moreover, to ensure good quality of Air and to externalise the heat created within the rooms, 50 numbers of Air Ventilations are installed all over the campus.



## **Water Testing Report**

### **Water Quality Management:**

- Clean and safe drinking water is ensured for everyone through water testing. With this in mind, Asst. Chemist D.L.L. PHE, Dibrugarh, conducts the necessary testing of the water quality at M.D.K.G. College. According to the results of the water testing, every chemical in the water is below the IS: 10500(2012) limit. Thus, the college's water can be regarded as potable. All parameters are "Safe for Drinking" and within acceptable ranges. An extensive report is provided herewith.



DISTRICT LEVEL LABORATORY (PHE), DIBRUGARH  
 Address: Office of the Executive Engineer (PHE), Dibrugarh  
 Sub-Division: Dibrugarh  
 Email ID: dibdll181@gmail.com



**TEST REPORT**

Test Report No.	DIB/DLL/2023-24/1353(A)	Issue Date	19/10/2023
Issued to	M.D.K.G. College	Sample Received Date	10/10/2023
Block/Habitation	K.G. gogoi Road, Khalihamari, Dibrugarh	Sample Location	M.D.K.G. College Arts Building
Sample Type	Tube Well	Quantity	1 Liter
Sample Collected By	M.D.K.G. College	Sample Collected On	10/10/2023
Date of Analysis Started	10/10/2023	Date of Analysis Completed	12/10/2023

RESULTS						
Sl. No.	Parameter	Protocol Used	Results	IS: 10500 2012 (Second Revision)		Unit
				Desirable Limit	Max. Permissible Limit (in absence better alternate source)	
1	pH	IS: 3025: Part 11	5.92	6.5 - 8.5	No relaxation	pH Units
2	TDS	IS: 3025: Part 16	108	500	2000	mg/L
3	Turbidity	IS: 3025: Part 10	2.8	1	5	NTU
4	Chloride	IS: 3025: Part 32	14.18	250	1000	mg/L
5	Total Hardness	IS: 3025: Part 21	70	200	600	mg/L
6	Total Alkalinity	IS: 3025: Part 23	25	200	600	mg/L
7	Colour	IS: 3025: Part 4	10	5	15	Hazen
8	Odour	IS: 3025: Part 5	Agreeable	Agreeable	Agreeable	
9	Taste	IS: 3025: Part 6	-	Agreeable	Agreeable	
10	Calcium	IS: 3025: Part 40	17.63	75	200	mg/L
11	Magnesium	APHA 3500- Mg B	6.31	30	100	mg/L
12	Iron	APHA 3500-Fe B	0.81	1	No Relaxation	mg/L
13	Nitrate	APHA 3500- Fe B	1	45	No Relaxation	mg/L
14	Fluoride	APHA 4500 NO <sub>2</sub> B	0.93	1	1.5	mg/L
15	Sulphate	APHA-4500 SO <sub>4</sub> E	9.72	200	400	mg/L
16	Residual Chlorine	FTK Method	Nil	0.2	1	mg/L
17	Arsenic	IS:3025: Part 37	<0.009	No Relaxation	0.01	mg/L

Remark- Water is Acidic.

*Call*  
 Asst. Chemist D.L.L.  
 PHE, Dibrugarh  
 Asst. Chemist (DLL)  
 PHE, Dibrugarh

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*



DISTRICT LEVEL LABORATORY (PHE), DIBRUGARH  
 Address: Office of the Executive Engineer (PHE), Dibrugarh  
 Sub-Division: Dibrugarh  
 Email ID: dibdl1181@gmail.com



**TEST REPORT**

Test Report No.	DIB/DLL/2023-24/1353(B)	Issue Date	19/10/2023
Issued to	M.D.K.G. College	Sample Received Date	10/10/2023
Block/Habitation	K.G. gogol Road, Khalihamari, Dibrugarh	Sample Location	M.D.K.G. College Arts Building
Sample Type	Tap Water	Quantity	1 Liter
Sample Collected By	M.D.K.G. College	Sample Collected On	10/10/2023
Date of Analysis Started	10/10/2023	Date of Analysis Completed	12/10/2023

**RESULTS**

Sl. No.	Parameter	Protocol Used	Results	IS: 10500:2012(Second Revision)		Unit
				Desirable limit	Max. Permissible limit (in absence better alternate source)	
1	pH	IS: 3025: Part 11	6.25	6.5 - 8.5	No relaxation	pH Units
2	TDS	IS: 3025: Part 16	148	500	2000	mg/L
3	Turbidity	IS: 3025: Part 10	0.5	1	5	NTU
4	Chloride	IS: 3025: Part 32	56.72	250	1000	mg/L
5	Total Hardness	IS: 3025: Part 21	92	200	600	mg/L
6	Total Alkalinity	IS: 3025: Part 23	25	200	600	mg/L
7	Colour	IS: 3025: Part 4	<5	5	15	Hazen
8	Odour	IS: 3025: Part 5	Agreeable	Agreeable	Agreeable	
9	Taste	IS: 3025: Part 6	-	Agreeable	Agreeable	
10	Calcium	IS: 3025: Part 40	21.64	75	200	mg/L
11	Magnesium	APHA 3500- Mg B	9.23	30	100	mg/L
12	Iron	APHA 3500-Fe B	0.05	1	No Relaxation	mg/L
13	Nitrate	APHA 3500- Fe B	0.2	45	No Relaxation	mg/L
14	Fluoride	APHA 4500 NO <sub>3</sub> B	1	1	1.5	mg/L
15	Sulphate	APHA-4500 SO <sub>4</sub> E	6.31	200	400	mg/L
16	Residual Chlorine	FTK Method	Nil	0.2	1	mg/L
17	Arsenic	IS:3025: Part 37	<0.009	No Relaxation	0.01	mg/L

Remark- Water is Slightly Acidic.

Asst. Chemist D.L.L.  
 PHE, Dibrugarh  
 Asst. Chemist (DLI)  
 PHE, Dibrugarh

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*



DISTRICT LEVEL LABORATORY (PHE), DIBRUGARH  
Address: Office of the Executive Engineer (PHE), Dibrugarh  
Sub-Division: Dibrugarh  
Email ID: dibdll181@gmail.com



### TEST REPORT

Test Report No.	DIB/DLL/2023-24/1352(B)	Issue Date	9/10/2023
Issued to	M.D.K.G. College	Sample Received Date	10/10/2023
Block/Habitation	K.G. gogoi Road, Khalihamari, Dibrugarh	Sample Location	M.D.K.G. College Science Building
Sample Type	Tap Water	Quantity	1 Liter
Sample Collected By	M.D.K.G. College	Sample Collected On	10/10/2023
Date of Analysis Started	10/10/2023	Date of Analysis Completed	12/10/2023

RESULTS						
Sl. No.	Parameter	Protocol Used	Results	IS: 10500:2012(Second Revision)		Unit
				Desirable limit	Max. Permissible limit (in absence better alternate source)	
1	pH	IS: 3025: Part 11	6.7	6.5 - 8.5	No relaxation	pH Units
2	TDS	IS: 3025: Part 16	138	500	2000	mg/L
3	Turbidity	IS: 3025: Part 10	0.5	1	5	NTU
4	Chloride	IS: 3025: Part 32	18.43	250	1000	mg/L
5	Total Hardness	IS: 3025: Part 21	94	200	600	mg/L
6	Total Alkalinity	IS: 3025: Part 23	45	200	600	mg/L
7	Colour	IS: 3025: Part 4	<5	5	15	Hazen
8	Odour	IS: 3025: Part 5	Agreeable	Agreeable	Agreeable	
9	Taste	IS: 3025: Part 8	-	Agreeable	Agreeable	
10	Calcium	IS: 3025: Part 40	15.23	75	200	mg/L
11	Magnesium	APHA 3500- Mg B	13.60	30	100	mg/L
12	Iron	APHA 3500- Fe B	0.07	1	No Relaxation	mg/L
13	Nitrate	APHA 3500- Fe B	0.2	45	No Relaxation	mg/L
14	Fluoride	APHA 4500 NO <sub>3</sub> B	1.14	1	1.5	mg/L
15	Sulphate	APHA-4500 SO <sub>4</sub> E	3.64	200	400	mg/L
16	Residual Chlorine	FTK Method	Nil	0.2	1	mg/L
17	Arsenic	IS:3025: Part 37	<0.009	No Relaxation	0.01	mg/L

Remark- All parameters are within permissible limit & "Safe for Drinking "

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*

*FWL*  
Asst. Chemist D.L.L.  
PHE, Dibrugarh  
Asst. Chemist (DLL)  
PHE, Dibrugarh

# Electricity Bill for the month of April and May, 2024



**Assam Power Distribution Company Limited**  
 NAME OF ELECTRICAL SUB-DIVISION / (RCA): DIBRUGARH-EED-II / (RCA) DIBRUGARH  
 CIN: U40109AS000390007242  
 GSTIN: 18A/BC/1354/1ZJ  
**ELECTRICITY BILL**

Website: www.apdc.org

Controlled Customer Care Number: 1912

Consumer Name: Principal MDK Girls College Address: K C Gogoi Path Dibrugarh, DIBRUGARH  Contact Number: 943603424 Email: mdkgcollege@gmail.com Tariff Category: HT M BULK SUPPLY (GOVERNMENT EDUCATION) Supply Voltage Level: Supply Voltage Level 11KV	<b>Consumer Number: 210000001211</b> Old Consumer Number: 6300001511 DTR Number: M136/WH Pole Number: 030 Connected Load in KW: 60.0 Contracted Demand in KVA: 71.0 Load Security: 1.01629.000 Meter Number: APC07950	<b>Bill Amount: 26903.000</b> <b>Due Date: 22-Apr-2024</b> Bill Number: 900033056 Bill Period: 01-Mar-2024 To 31-Mar-2024 Bill Date: 05-Apr-2024 Number of Days: 31 Meter Status: RUNNING Billing Status: NORMAL
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## Meter Reading Details

Reading Type	Meter Number	MF	Previous Reading in kWh	Previous Export in kWh	Current Reading in kWh	Current Export in kWh	Difference Reading in kWh	Difference Export in kWh
KWH(Normal)	APC07950	150.0	1031.669	0.000	1042.345	0.000	10.676	0.000

Units Consumed	PF Penalty/Rebate	LT Missing Penalty	DTR Penalty	HT Rebate	Voltage Rebate	Voltage Penalty	Billable Units in kWh
Normal: 3617.000	145.500	0.000	0.000	0.000	0.000	0.000	1762.500
Recorded Demand (in KVA)	0.00	Maximum Demand (in KVA)	12.3	Billing Demand (in KVA)	71.0	Average Power Factor	75.8
Power on Hours	244.0	Freeze Amount	0.0	Oxygen Plant Rebate	0.00	Availability Percentage	

## Billing Details

Current Demand	Outstanding Amount	Adjustment Amount	Rate Rebate	Net Bill Amount
Rs. 26902.920	Rs. 0.000	Rs. 0.000	0.00	<b>Rs. 26903.000</b>

**Load Security Interest/Refund of Rs.0.00 has been credited.**  
**In Words: Rupees Twenty Six Thousands Nine Hundred Three Only**

PLEASE PAY YOUR BILL ON TIME AND HELP US TO SERVE YOU BETTER

Charges Breakup		Units	Rate	Amount
Energy Charge(Normal)		1762.500	7.450	12992.800
Total Energy Charge				12992.800
Energy Charge Re-estimated				0.000
Roof-top Solar Adjustment		0.0	4.54	0.00
Demand/Fixed Charge (KVA)		71.0	150.0	10654.25
FPPPA Charge			1.29	2273.66
Electricity Duty				1172.82
Govt. Subsidy			0.0	0.0
Overhaul Penalty				0.0
Meter Rent			0.0	0.0
Charges for dishonoured cheque				0.0
Arrear Principal				0.000
Arrear Surcharge				0.000
Current Surcharge				0.000
Adjustment Amount				0.000
<b>Rebate if paid before due date</b>				<b>0.00</b>
<b>Payable amount before due date</b>				<b>26903.00</b>
<b>Payable amount after due date</b>				<b>26903.00</b>

Energy Consumption (Last Month's Bill)



Signature with seal

Adopted Village Plantation Photo





Scientific name – *Cassia fistula*

Local name – Hunaru

Family- Fabaceae





Scientific name – *Magnolia sp*

Family -Magnoliaceae



Scientific name – *Pongamiapinnata*

Local name- Koros

Family- Fabaceae



Scientific name *Phyllanthusemblica*

Local name- Amlakhi

Family – Euphorbiaceae



Scientific name – *Alstonia* sp.

Local name – Satiyana

Family- Apocynaceae

## Tree Diversity of the college

Table: Plants available in the college campus

SN	Local name	Scientific name	Family	Total (Nos.)
1	Gamhar	<i>Gmelinasp</i>	Lamiaceae	1
2	Arhar	<i>Cajanuscajan</i>	Leguminaceae	2
3	Dalcini	<i>Cinnamomumsp</i>	Lauraceae	1
4	Gulab	<i>Rosa sp</i>	Rosaceae	7
5	Kolgos	<i>Musa paradisiaca</i>	Musaceae	9
6	Joba	<i>Hibiscus rosasinensis</i>	Malvaceae	9
7	Modhuri	<i>Psidiumsp</i>	Myrtaceae	2
8	Aam	<i>Magniferaindica</i>	Anacardiaceae	5
9	Tamul	<i>Areca catechu</i>	Arecaceae	3
10	Vutjolokia	<i>Capsicum sp</i>	Solanaceae	1
11	Rangol	<i>Ixorachinensis</i>	Rubiaceae	7
12	Akhoiful	<i>Jasminumsp</i>	Oleaceae	1
13	Mamoitamul	<i>Dypsislutescens</i>	Arecaceae	2
14	Gul nemu	<i>Citrus sp</i>	Rutaceae	1
15	TitaBahak	<i>Justiciasp</i>	Acanthaceae	1
16	Saraswatigos	<i>Thujasp</i>	Cupressaceae	4
17		<i>Hydrangea peniculata</i>	Hydrangiaceae	1
18	Nayantora	<i>Catharanthusroseus</i>	Apocynaceae	3
19	Kopouful	<i>Dendrobiumsp</i>	Orchidaceae	1
20	Patabahar	<i>Aucuba japonica</i>	Garryaceae	1
21	Hijugos	<i>Euphorbia sp</i>	Euphorbiaceae	1
22	Bhatouful	<i>Vanda sp</i>	Orchidaceae	1
23	Amlakhi	<i>Phyllanthusemblica</i>	Euphorbiaceae	1

24		<i>Dracaena angustifolia</i>	Liliaceae	1
25	Duportenga	<i>Bryophyllum</i> sp	Crassulaceae	2
26	Jamu	<i>Syzygium cumini</i>	Myrtaceae	1
27	Dhatura	<i>Brugmansia</i> sp	Solanaceae	1
28	Patabahar	<i>Coleus decurrens</i>	Lamiaceae	1
29	Bihlogani	<i>Pteris</i> sp	Pteridaceae	1
30		<i>Cycas</i> sp	Cycadaceae	1
31	Hasnahana	<i>Cestrum</i> sp	Solanaceae	1
32	Lucky Bamboo	<i>Dracaena braunii</i>	Asparagaceae	2
33	Kordoi	<i>Averrhoa carambola</i>	Liliaceae	2
34	Satiyana	<i>Alstonia</i> sp	Apocynaceae	1
35	Debdaru	<i>Polyalthia longifolia</i>	Annonaceae	8
36	Hewali	<i>Nyctanthes arbor-tristis</i>	Oleaceae	1
37	Tuloxi	<i>Ocimum</i> sp	Lamiaceae	2
38	Sal kuwari	<i>Aloe vera</i>	Liliaceae	2
39	Dohikosu	<i>Alocasia odorata</i>	Araceae	2
40	Tejpat	<i>Cinnamomum tamala</i>	Lauraceae	1

## Carbon Stock of the College Campus

Table: Height and Girth of individual Tree available in the college campus

SN.	Local Name	Scientific name	Girth at breast height (cm) (Include the only trees Girth $\geq$ 30cm)	Approx. Age (years)
1	Debdaru tree	<i>Polyalthialongifolia</i>	104cm	
2	Debdaru tree	<i>Polyalthialongifolia</i>	79cm	
3	Debdaru tree	<i>Polyalthialongifolia</i>	103cm	
4	Debdaru tree	<i>Polyalthialongifolia</i>	108cm	
5	Debdaru tree	<i>Polyalthialongifolia</i>	118cm	
6	Debdaru tree	<i>Polyalthialongifolia</i>	103cm	
7	Debdaru tree	<i>Polyalthialongifolia</i>	98cm	
8	Debdaru tree	<i>Polyalthialongifolia</i>	94cm	

L – left side of MDKG college campus (main building)

R- Right side of MDKG college campus (main building)



R4



R1





L3



L2



R5



R2



R3



L1

## Carbon footprint

### 13.1 Carbon Emission by Transportation

Sl. No.	Fuel Used	Types of Transport	Persons	Numbers of Persons	A	B	C	D=C/B	E	F=ExD	G	H=C x F x A
					Nos. of Vehicle Used	mileage	Av. distance in KM	Fuel Consumed per Day per Vehicle inltr	Total working days	Petrol Consumption per Vehicle in year	Emission factor	Total emission
1	No Fuel	Bicycle	Students									
			NonTeaching Staff									
2	Petrol	Two Wheeler	Students								2.67	
			NonTeaching Staff								2.67	
			Teaching Staff									2.67
3	Petrol	Four Wheeler	Teaching Staff								2.67	
4	Diesel	Auto	Students								2.67	
			Students								2.67	
			Teaching Staff									2.67
Total CO <sub>2</sub> emission in Kg CO <sub>2</sub> eq per Year												

Table 29: Carbon emission by transport

#### a. Carbon Emission by Electricity

Parameter	Emission Factor (A)	Unit in KWH (B)	Total emission (C=AxB)
Electricity	0.82		
<b>Total Kg CO<sub>2</sub> Eq. Emission by Electricity</b>			

Total Carbon dioxide emission at MDKG College

Area	CO <sub>2</sub> eq. emission in KG
Electricity	
Transport	
<b>Total</b>	

#### 13.4 Reduction of Carbon Emission by Solar Power Plant

Parameter	Emission Factor	Unit in KWH	Total reduction of emission
Solar Power Plant	0.82		

#### 13.5 Reduction of Carbon Emission due to absorption of CO<sub>2</sub> by Tree Plantation

Particulars of Flora	Numbers	Carbon absorption by one tree Kg Per year	Total Carbon DiOxide in Kg
Full grown Tree		6.8	
Semi Grown Tree		3.4	
Quarter grown plants		1.7	
<b>Total Carbon dioxide absorption by trees</b>			

#### 13.6 Total Reduction in Carbon dioxide emission at MDKG College

Area	Reduction in CO <sub>2</sub> eq. emission in KG
Solar	
Trees	
<b>Total</b>	

### 13. Solar Plants

There are two numbers of Solar plants (Lights attached with solar chargeable battery) donated by Jyoti Kanoi Foundation. These plants have greatly contributed to the eco system, environment and beauty of the college.

