

INDIAN ACADEMY

Degree College - Autonomous

GREEN AUDIT COMMITTEE

06-12-2023

CIRCULAR

The Green Audit Committee of IADC-A is organizing an Awareness program and a Poster Session on the occasion of "World Soil Day-2023" (#WorldSoilDay) and "National Energy Conservation Day-2023".

Date : 14-12-2023 (Thursday)

Venue : Multipurpose Hall, IADC-A Campus.

Time : 10:00 am to 12:30 pm.

The Objectives:

- To focus attention on the importance of healthy soil and sustainable management of soil resources.
- To reduce the use of energy and to encourage people to use it efficiently.
- To make students aware they the importance of the soil and conservation of energy.

The Outcomes:

- In depth understanding of the importance of healthy soil and soil resources.
- Get to know about the consequences of soil pollution and its effects.
- Gain knowledge about the management of sustainable soil resources and conservation of energy sources (Importance of renewable and green energy sources).

We request all the HoDs, Faculty and the students to participate and render their support.

Event Organizers: GREEN AUDIT COMMITTEE

Dr. Ramachandra Murthy T.T.S.

Dr. Vanitha G. Ramesh

Dr. T. Kalaiyarasu

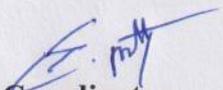
Dr. Divya

Ms. Kashma N. B.

Mr. Naveen N.

Mrs. Sowmya G. Patkar

Mr. Nagendra N.


Coordinator

Green Audit Committee


Principal

IADC-A



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BENGALURU - 43

INDIAN ACADEMY

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Green Audit Committee

Organizes

Awareness Programme

Thursday, 14th December 2023

10:00 am to 12:30 pm

Multipurpose Hall, IADC-A



“WORLD SOIL DAY”

Soil and Water: A Source of Life



“NATIONAL ENERGY CONSERVATION DAY”

Save Energy, Sustain Life!

Organizing Committee

Dr. N. Thilaka
Principal, IADC-A

Dr. Ramachandra Murthy T.T.S.
Coordinator, Green Audit Committee

Organizing Members

Dr. Vanitha G. Ramesh
Dr. Divya
Dr. T. Kalaiyarasu
Ms. Kashma N. B.

Mr. Naveen N.
PRINCIPAL
Mrs. Sowmya G. Patkar
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
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BENGALURU - 43

Sowmya G. Patkar
12/12/23

ENERGY PLEDGE

SCAN ME



Principal

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Bangalore - 43.

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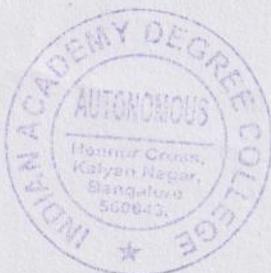
GREEN AUDIT COMMITTEE

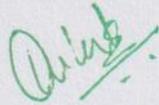
14th December, 2023

World Soil Day campaign is held annually on 5th December, aim to raise awareness of the importance and relationship between soil and water in achieving sustainable and resilient agrifood systems. In December 2013, the UN General Assembly designated 5th December 2014 as the first official World Soil Day. Soil and water are vital for nutrient absorption by plants, which binds our ecosystems together. This symbiotic relationship is the base of our agricultural systems. More than 95% of our food made from these two vital resources. However, in the face of climate change and human exploitation, our soils are being degraded, imposing too much pressure on our water resources.

National Energy Conservation Day is observed in India every year on December 14, to raise public awareness about the value of energy efficiency and conservation. It is necessary to consume energy prudently and resourcefully to maximise energy efficiency and to ensure that it is conserved for forthcoming generations.

On the occasion of "World Soil Day" and "National Energy Conservation Day", Green Audit Committee of the Indian Academy Degree College- (Autonomous) organized an awareness campaign and poster presentation based on the themes Soil and Water: A Source of Life & Save Energy, Sustain Life. The awareness program was presided by Dr. N. Thilaka, Principal, IADC-A, Bengaluru. The event was attended by the Prof. Raja Rajan P, Principal, IADC-A, Dr. K. Shyam Sunder, HOD- Physical Sciences, Dr. Ananda Vardhan H, HOD- Life Sciences, Dr. N.S. Venkatesh, Principal Scientist, CLSR Lab, faculty members and the students across various streams. Student participants made posters on sustainable soil management practices and energy conservation strategies. Best posters were judged and awarded with prizes.

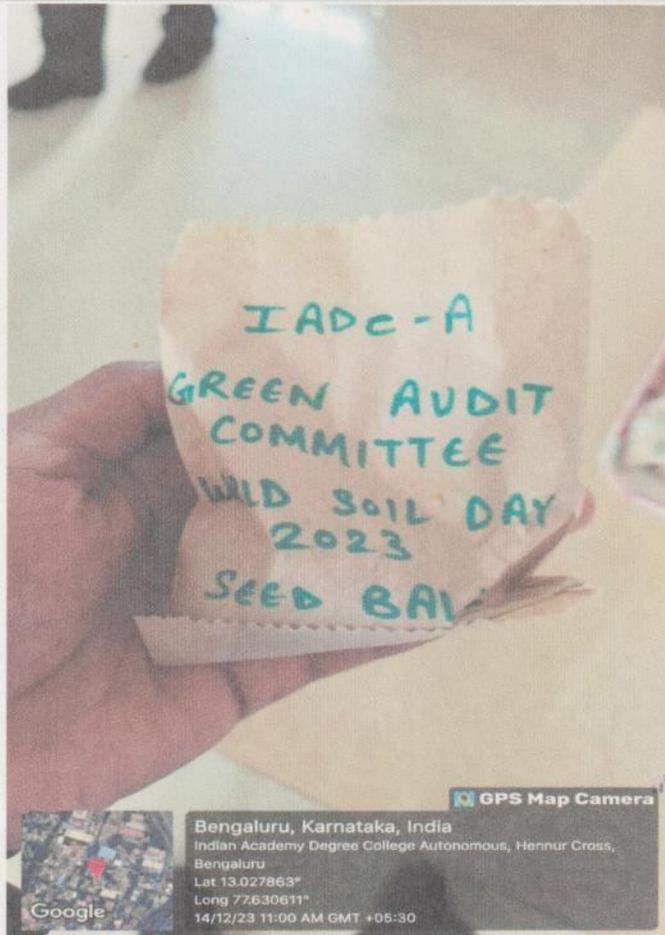



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WORLD SOIL DAY (05/12/2023) & NATIONAL ENERGY CONSERVATION DAY (14/12/2023)



Arindam

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Hennur Cross, Kalyan Nagar
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 **GPS Map Camera**

Bengaluru, Karnataka, India

Indian Academy Degree College Autonomous, Hennur Cross, Bengaluru

Lat 13.027863°

Long 77.630611°

14/12/23 11:14 AM GMT +05:30

Google



Quint
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Anish
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GREEN AUDIT COMMITTEE

Organizes

AWARENESS PROGRAMME

“WORLD SOIL DAY” & “NATIONAL ENERGY CONSERVATION DAY”

Date : 14-12-2023 (Thursday)
Venue : Multipurpose Hall, IADC-A Campus.
Time : 10:00 am to 12:30 pm.

Themes for Poster:

Soil and Water: A Source of Life

Save Energy, Sustain Life

Guidelines for poster:

- Each team will consist of maximum 2 participants.
- Only one poster will be allowed to present per team.
- All lettering and diagrams should be large enough to be read from a minimum of 2 feet.
- The official language for the poster will be English.
- Posters can be prepared using charts. Pre made posters can be displayed at scheduled time.
- Marks will be based on theme, creativity, efforts taken, scientific content and presentation.
- Decision of the judges/committee will be final.
- The authors should arrive at least 30 minutes before the poster session starts.
- Participant has to explain their poster content to the committee, to the visitors during the session.
- Participant has to bring pins, or the gum, or double sided tape to place their poster properly.
- Winner teams should submit their posters to the coordinators.

ALL THE BEST



A handwritten signature in green ink, appearing to read "Anish".

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Principals

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Bengaluru - 43.





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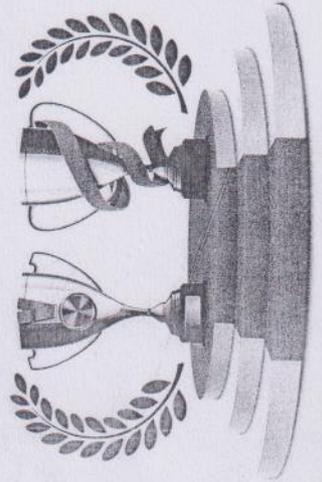
ANNUAL RECOGNITION

DAY 2023 - 24

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This is to certify that Mr./Ms. Viritha M of I M.Sc., Biotechnology has secured First Place in Poster Competition organized by Green Audit during the academic year 2023 - 24.



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Dr. N Thilaka

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Dr. T Somasekhar

Dr. T Somasekhar

Chairman, IAET

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This is to certify that Mr./Ms. Shrawanthi M.S of _____

I.M.Sc, Biotechnology has secured First Place in _____

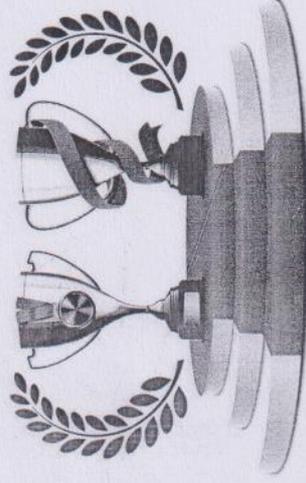
Poster - Competition organized by Green - Audit during the
academic year 2023 - 24.

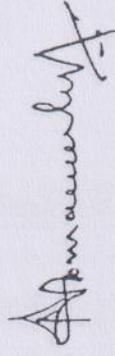


Dr. N Thilaka

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Dr. T Somasekhar

Chairman, IAET



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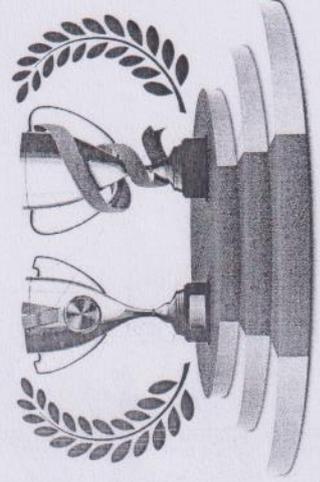
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This is to certify that Mr./Ms. Ms. Gupta Priti Mintudas of

I.M.Sc. Biotechnology has secured Second Place in

Poster - Competition organized by Green Audit during the

academic year 2023 - 24.



Dr. T Somasekhar

Dr. T Somasekhar
Chairman, IAET

Dr. N Thilaka

Dr. N Thilaka

Principal, IAD & AECE
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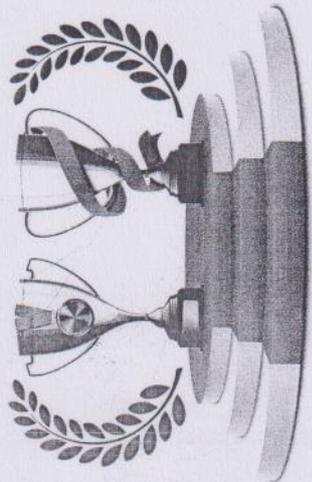
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This is to certify that Mr./Ms. Deepa of _____

I.M.Sc: Biotechnology has secured Second Place in
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academic year 2023 - 24.

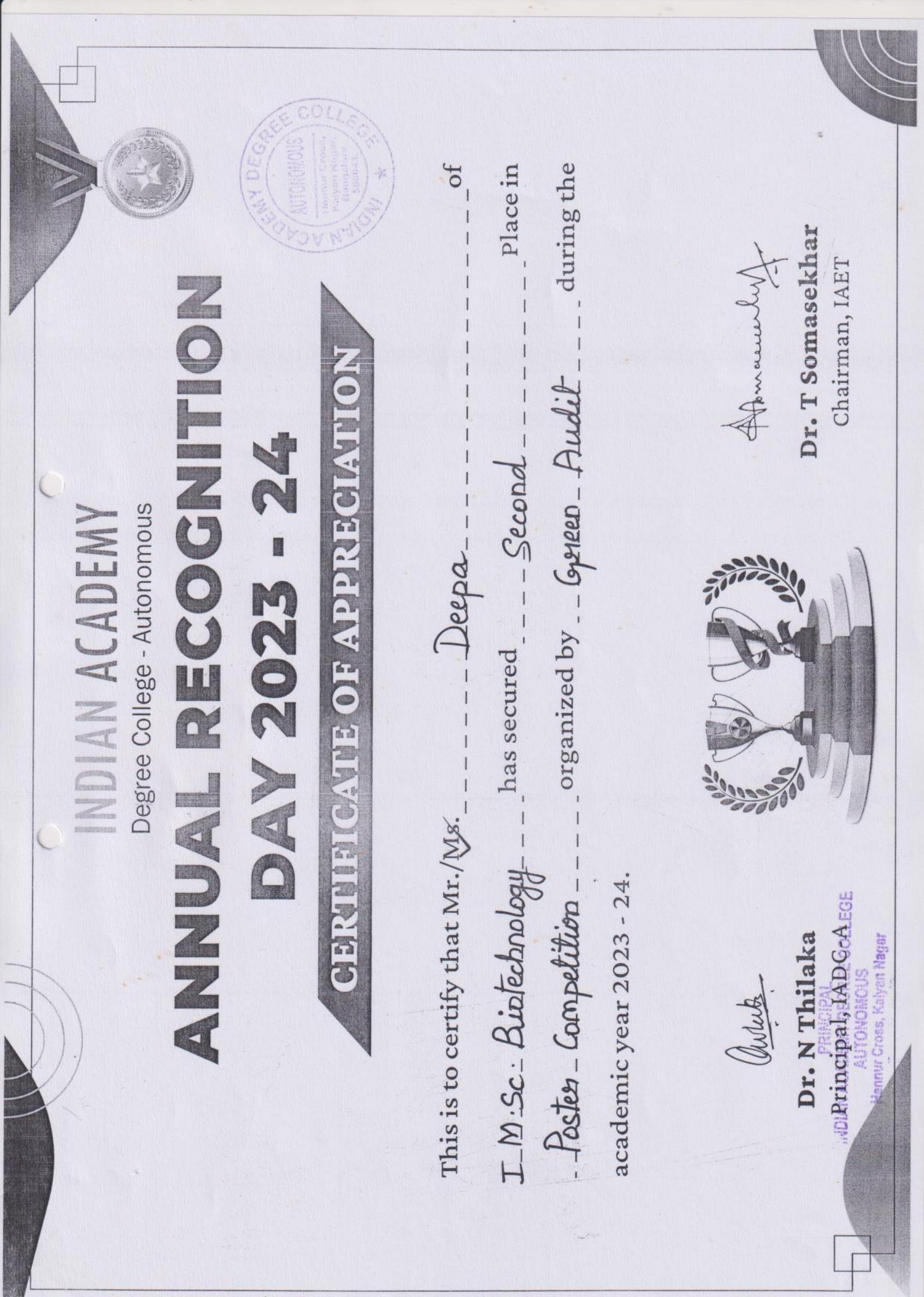


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Dr. N Thilaka
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Autonomous
Hennur Cross, Kalyan Nagar

A Somasekhara

Dr. T Somasekhar
Chairman, IAET



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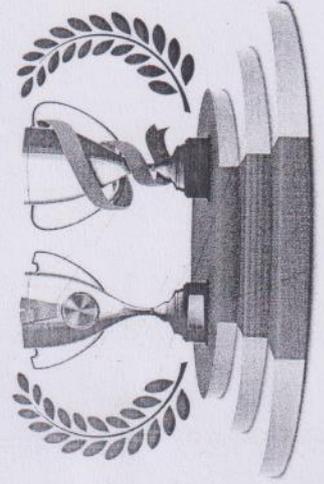
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This is to certify that Mr./Ms. Pawan Shruti - Bajrang of
I.M.Sc - Biotechnology has secured Second Place in
Poster - Competition organized by Green Audit during the
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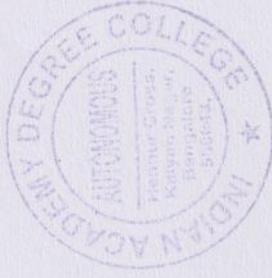
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Dr. N. Thilaka

Principal, IADCAEGL
Autonomous
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Amamulya

Dr. T Somasekhar
Chairman, IAET



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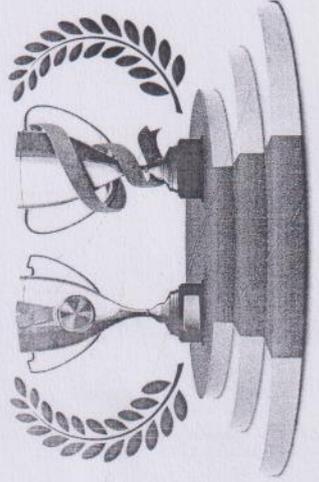


This is to certify that Mr./Ms. Lakshmi K.S. of _____

I M.Sc. Biochemistry has secured Third Place in _____

Poster - Competition organized by Green Audit during the _____

academic year 2023 - 24.



Dr. N Thilaka

Dr. N Thilaka

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Dr. T Somasekhar

Dr. T Somasekhar

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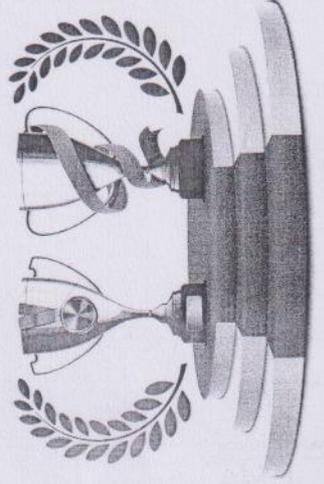
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This is to certify that Mr./Ms. Chaithra C. of _____

I M.Sc. Biochemistry has secured Third Place in
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This is to certify that Mr./Ms. Mallikarjun of

I sem M.Sc. Biotech has secured Appreciation certificate Place in

Mime organized by Green Audit during the

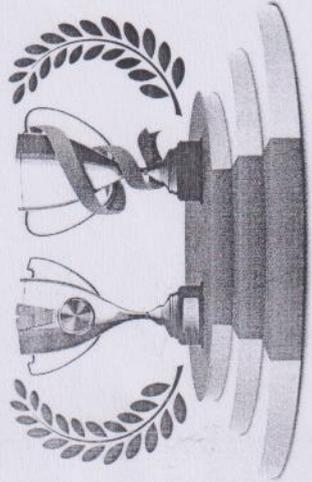
academic year 2023 - 24.

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Principal, IADC-A

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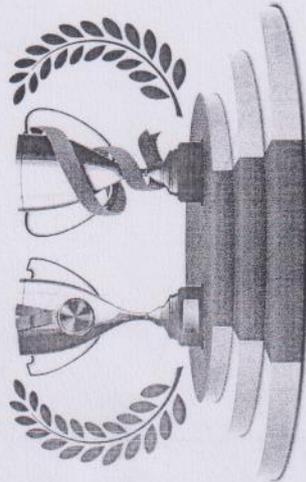
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This is to certify that Mr./Ms. Manali Nithin Javevi of
I sem M.Sc Biotech has secured Appreciation Certificate Place in
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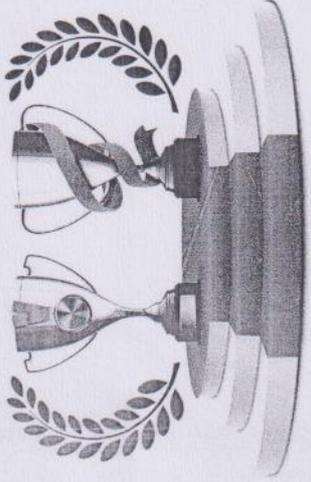
This is to certify that Mr./Ms. Ranya K.S of
I sem M.Sc Biotech has secured Appreciation Certificate Place in
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Dr. N Thilaka

Principal, IADCGE

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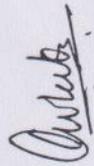
CERTIFICATE OF APPRECIATION

This is to certify that Mr./Ms. Abhishek B.S of _____

_____ has secured Appreciation - Certificate Place in

_____ Mime organized by Green Audit during the

academic year 2023 - 24.



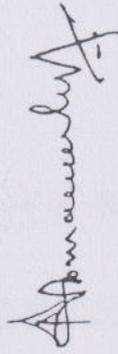
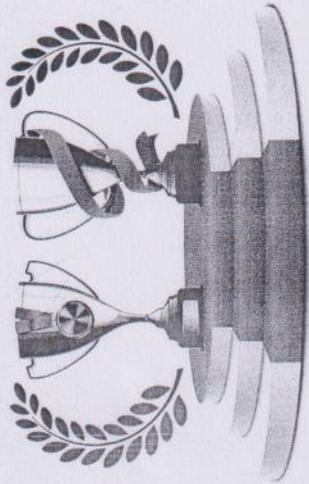
Dr. N Thilaka

Principal, IADC-A

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Chairman, IAET



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DAY 2023 - 24

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This is to certify that Mr./Ms. Harsha P.R. of _____

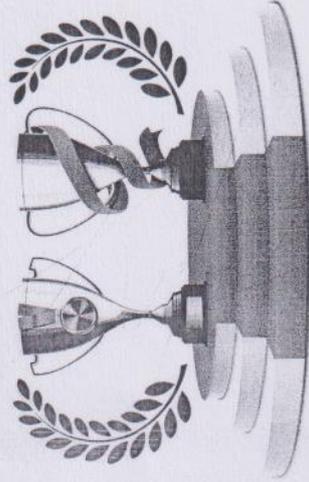
_____ M.Sc. Biotech has secured Appreciation - certificate Place in _____

_____ Mime organized by Green - Audit during the _____

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Dr. N. Thilaka

Principal, IADCC-A
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Dr. T. Somasekhar

Chairman, IAET

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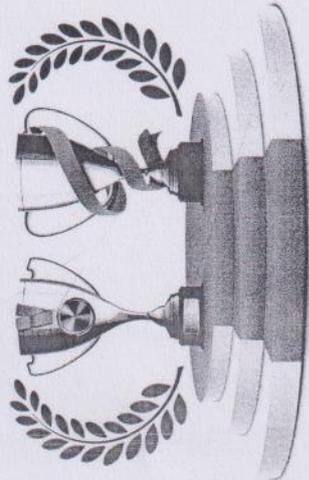
This is to certify that Mr./Ms. Pawar Shreuti Bajrang of
1st sem M.Sc. Biotech has secured Appreciation Certificate Place in
1st Mime organized by Green - Audit during the
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Auditee

Dr. N Thilaka

Principal, IADC-A
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Dr. T Somasekar

Dr. T Somasekar

Chairman, IAET



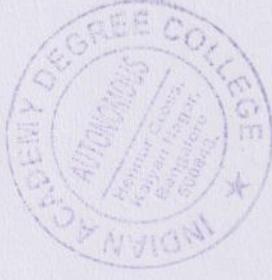
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DAY 2023 - 24

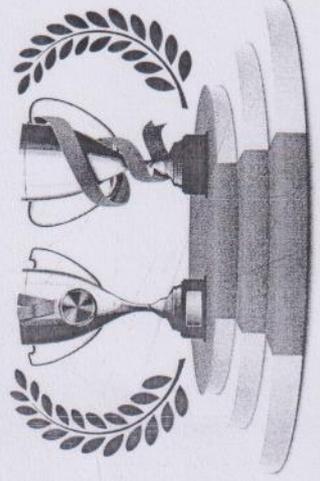
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This is to certify that Mr./Ms. Kiran Kumar B.C. of
III sem M.Sc Biotech has secured Appreciation Certificate Place in
Time organized by Green Audit during the
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Dr. N Thilaka

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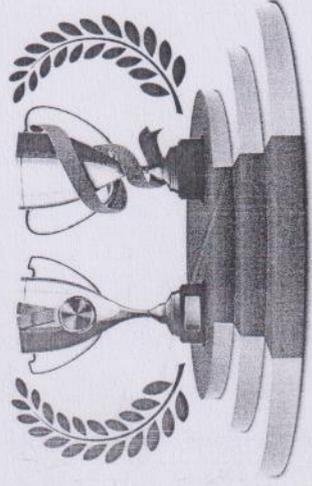
ANNUAL RECOGNITION DAY 2023 - 24

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This is to certify that Mr./Ms. Souvik Bhunia of
III sem M.Sc Biotech has secured Appreciation - Certificate Place in
Mime organized by Green Audit during the
academic year 2023 - 24.

Dr. N Thilaka
Principal, IADCAEGL
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Chairman, IAET

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This is to certify that Mr./Ms. Keerthana J.M of

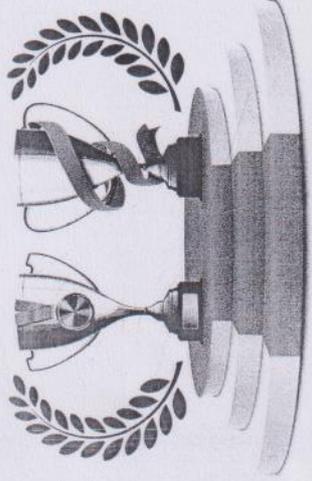
III sem M.Sc. Biotech has secured Appreciation Certificate Place in

Mime organized by Green - Audit during the

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Dr. N. Thilaka

Principal, IADCEA
Hennur Cross, Kaiyan Nagar
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Dr. T. Somasekhar

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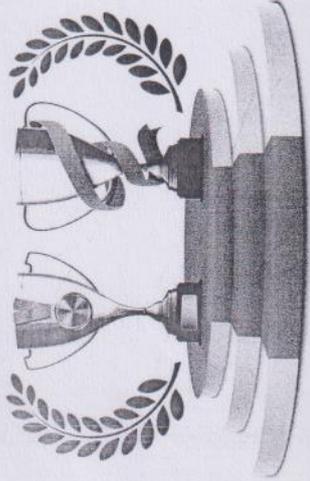
ANNUAL RECOGNITION DAY 2023 - 24 CERTIFICATE OF APPRECIATION



This is to certify that Mr./Ms. Jaisen William of
III sem M.Sc Biotech has secured Appreciation Certificate Place in
Mime organized by Green Audit during the
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Dr. N Thilaka

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Dr. T Somasekhar

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EVENT PROCESS SHEET

Date: 13-03-2024

Name of the Event and Organiser	WORLD WATER DAY - 2024 22-03-2024 "WATER FOR PEACE" DEPT. OF LIFE SCIENCES - "NATURE CLUB" "GREEN AUDIT COMMITTEE"
Event Proposal	On the occasion of the world water day, IADC-A is organizing the following events. 1) strategies to conserve water 2) An awareness Rally 3) Exhibition
Objective Outcomes of the Event GREEN AUDIT COMMITTEE 13/3/24	- ENCLOSED -
HOD Comments 13/3/24	This exhibition programme would help us create an awareness about water conservation and its importance atleast to the nearest neighbourhood and is relevant in the present on going crisis in Bangalore.
Principal Comments	Forwarded to Honorable Chairmen for approval.
Signature & Date	<u>Quinn</u> 13/3/2024
Chairman's Approval	Keep budget under control. <u>Abmanand</u> 14/3/24

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NATURE CLUB AND GREEN AUDIT COMMITTEE

CIRCULAR

The Nature club and Green Audit Committee of IADC-A is organizing the following Awareness programme on the occasion of “World Water Day -2024” (Theme - Water for Peace) on 22nd March 2024 (Friday), Time: 9:30 am -11:00am.

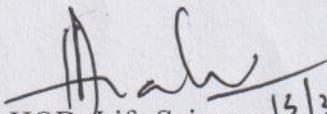
1. Distribution of pamphlets to near by households - Strategies to conserve water.
2. Rally - Awareness drive to promote conservation of water.
3. Exhibition on water conservation - We invite posters, short films, model-making (Venue: Multipurpose hall)

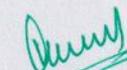
Learning objectives:

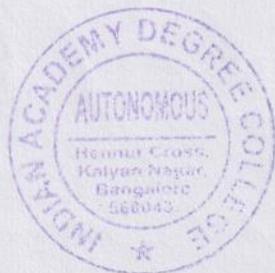
1. To focus attention on the importance of water conservation and its knowledge propagation.
2. To make the students aware about the issues related to wastage of water.
3. To enable the students think originally about the different water conservation strategies.
4. To make the community aware about the importance of water conservation.

Learning outcomes:

1. To sensitize the students and the community about conservation of water.
2. To gain knowledge about the methods of storage and recycling of water.
3. To understand the impact of water pollution and its adverse effects.
4. To know how to reduce the wastage of water.


HOD, Life Sciences, 15/3/24
IADCA


Principal, IADCA



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Department of Life Sciences - Nature club & Green Audit Committee

13-03-2024

To

The Principal

IADC-A

Bangalore.

Sub: Request for World water day - 2024 Budget Approval

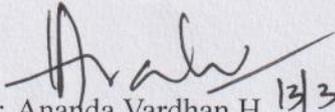
Respected Madam,

The Nature club and Green Audit committee are planning to organize a promotional activity "World water day 2024" for all the students of IADCA and the community on 22nd March 2024.

We seek your kind permission to approve the budget of Rs 8120 essential for conducting the fest.

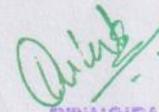
Thanking you madam,

Regards


Dr. Ananda Vardhan H 13/3/24

HOD Life Sciences




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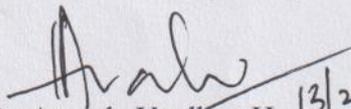
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World Water Day 2024

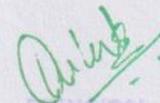
OVERALL BUDGET

S.No.	Particulars	Unit price	Quantity	Total amount (INR)
1	Banners	Rs.30/Sft	02 10x4 = 1 3 feet H X 4 feet W (Rally)	Rs. 1560
2	Pamphlets (<i>Flyers for distribution to households</i>)	Rs.7	A5 size (500 Nos.)	Rs.3500
3	Merit Certificates	Rs.13/certificate	12	Rs.160
4	Participant Certificates	Rs.13/certificate	50	Rs.650
5	Stationary items	Rs. 1000		Rs. 1000
6	Miscellaneous expenditure (Tetra Packs for Rally participants)	Rs. 10/pack	125	Rs.1250
Grand Total				Rs. 8120


Dr. Ananda Vardhan H 13/3/24

HOD Life Sciences




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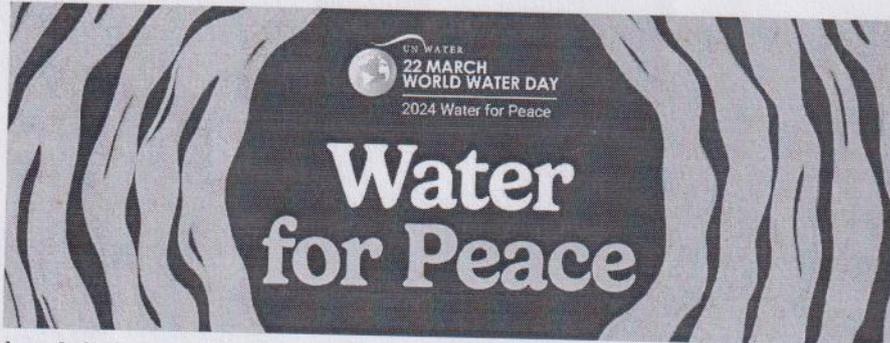
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Department of Life Sciences – Nature Club & Green Audit Committee
(A sustainability initiative of IAGI)

Q. I. S. R. G.
N.S.S.

WORLD WATER DAY 2024 – Water For Peace
22nd March 2024



Be part of the global campaign on 'Water for Peace'. We need everyone – from individuals and families to companies and governments – to do what they can to cooperate on water and pave the way for a more harmonious society. 2.2 billion still live without safely managed drinking water, including 115 million people who drink surface water. (WHO/UNICEF, 2023)



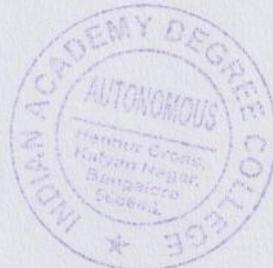
Principal

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ಮನೆಯ ನೀರಿನ ಸಂರಕ್ಷಣಾ ತಂತ್ರಗಳು

HOUSEHOLD WATER CONSERVATION STRATEGIES

- ಓವರ್‌ಹೆಡ್ ಟ್ಯಾಂಕ್‌ಗಳ ಬಳಿ ಮುಖ್ಯ ಕೊಳವೆಯ ಒತ್ತಡವನ್ನು ಅರ್ಧಕ್ಕೆ ಇಳಿಸಿ.
- Reduce the pressure of main nozzle to half, near the overhead tanks
- ಸೋರುತ್ತಿರುವ ಎಲ್ಲಾ ನಲ್ಲಿಗಳು ಮತ್ತು ಸ್ನಾನದ ಕೊಠಡಿ ಫಿಟ್ಟಿಂಗ್‌ಗಳನ್ನು ಸರಿಪಡಿಸಿ.
- Fix all the leaking taps and bath room fittings
- ಪಾತ್ರೆ ತೊಳೆಯಲು, ನೆಲವನ್ನು ಸ್ವಚ್ಛಗೊಳಿಸಲು ಮತ್ತು ವಾಹನ ತೊಳೆಯಲು RO ತ್ಯಾಜ್ಯ ನೀರನ್ನು ಮರುಬಳಕೆ ಮಾಡಿ.
- Reuse RO reject water for dish washing, floor cleaning and vehicle washing
- ಅಕ್ಕಿ, ಕಾಳುಗಳ ತೊಳೆಯುವಿಕೆಗೆ ಬಳಸಲಾದ ನೀರನ್ನು ಸಸ್ಯಗಳಿಗೆ ಮರುಬಳಕೆ ಮಾಡಿ.
- Reuse the reject water from rice, dhal washings to water plants
- ನೀರಿನ ವ್ಯರ್ಥವನ್ನು ಕಡಿಮೆ ಮಾಡಲು ನ್ಯೂಮ್ಯಾಟಿಕ್ ಬಾತ್ರೂಮ್ ಫಿಟ್ಟಿಂಗ್‌ಗಳನ್ನು ಸ್ಥಾಪಿಸಿ.
- Install pneumatic bathroom fixtures to reduce water wastage
- ಬಾತ್ರೂಮಿನಲ್ಲಿ ಫ್ಲಶಿಂಗ್ ಗಳ ಸಂಖ್ಯೆಯನ್ನು ಕಡಿಮೆ ಮಾಡಿ.
- Reduce the number of flushing's in the bathroom
- ನೀರನ್ನು ಸಂರಕ್ಷಿಸಲು ಮಳೆ ನೀರು ಕೊಯ್ಲು ಪದ್ಧತಿಗಳನ್ನು ಸ್ಥಾಪಿಸಿ.
- Install rain water harvesting systems to conserve water
- ಫ್ರಂಟ್ ಲೋಡ್ ವಾಷಿಂಗ್ ಮೆಷಿನ್‌ಗಳು, ಡಿಶ್ ವಾಷರ್‌ಗಳು ಮತ್ತು ವ್ಯಾಕ್ಯೂಮ್ ಕ್ಲೀನರ್‌ಗಳ ಬಳಕೆಗೆ ಬಳಸಲಾಗಿರುವ ನೀರನ್ನು ಬಟ್ಟೆ, ಅಡಿಗೆ ಪಾತ್ರೆಗಳು ಮತ್ತು ಮಹಡಿಗಳನ್ನು ತೊಳೆಯುವ ಹಸ್ತಚಾಲಿತ ವಿಧಾನಗಳಿಂದ ಆಗುವ ನೀರಿನ ವ್ಯರ್ಥವನ್ನು ತಪ್ಪಿಸಿ.
- Avoid water wastage during manual methods of washing clothes, kitchen utensils and floors by switching over to use of front load washing machines, dish washers and vacuum cleaners



Principal
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Department of Life Sciences-Nature Club, Green Audit Committee, ISR & NSS

Date: 01/04/2024

The Accounts Section,

IADC-A.

Dear Madam,

SUB: Submission of bills Reg;

REF: Awareness Campaign: WORLD WATER DAY-2024 (22/03/2024)

With reference to the above I am herewith enclosing the bills of expenditure incurred for the conduction of the above program on 22/03/2024 at IADC-A.

SL.NO.	PARTICULARS	AMOUNT (Rs.)
01	Juice	1500/-
02	Printing	1460/-
03	Chocolates-miscellaneous	109/-
GRAND TOTAL (Rs.)		3069/-

(In words Rupees Three Thousands Sixty Nine only)

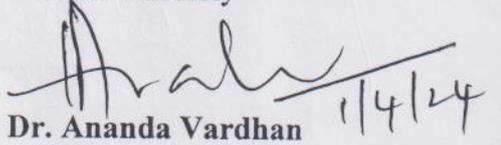
I request you to reimburse the above amount.

Thanking you,

Rs. 3069/- only spent
out of the proposed budget of
Rs. 8120/-

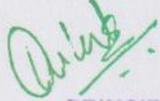
ENCL: Bills & Copy of the Approval

Yours sincerely


Dr. Ananda Vardhan 1/4/24

HoD, Dept. of Life Sciences
HEAD

Department of Life Sciences
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WORLD WATER DAY 2024



Anah
HEAD 20/3/24.

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Friday, 22nd March 2024

Awareness Rally and Street Play

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Institutional Social Responsibility (ISR) & NSS
(A sustainability initiative of IAGI)**

WORLD WATER DAY - 2024



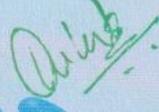
 **Friday, 22nd March 2024**

 **22 MARCH
WORLD WATER DAY**
2024 Water for Peace

Water for Peace

Be a part of the global campaign on 'Water for Peace'. We need everyone – from individuals and families to companies and governments – to do what they can to cooperate on water and pave the way for a more harmonious society. 2.2 billion still live without safely managed drinking water, including 115 million people who drink surface water. (WHO/UNICEF, 2023)

 www.iadc.ac.in


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**Department of Life Sciences
Nature Club, Green Audit Committee,
Institutional Social Responsibility (ISR) & NSS**
(A sustainability initiative of IAGI)

WORLD WATER DAY - 2024

 **Friday, 22nd March 2024**

 **22 MARCH
WORLD WATER DAY**
2024 Water for Peace

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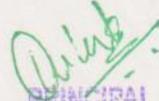
WORLD WATER DAY-22nd March, 2024

Report on Awareness rally and Street play

The Department of Life Sciences-Nature club, Green Audit Committee, Institutional Social Responsibility (ISR) and NSS conducted an Awareness rally and Street play on 22nd March 2024, to commemorate the "World Water Day" by promoting strategies to conserve water in the community. The faculty members, committee coordinators, volunteers and students of IADC-A, all had gathered for the rally. Ms. Javeri Manali, student of Life Sciences, welcomed the gathering and highlighted about the water shortage problem in Bengaluru and shared insights on remedies to overcome the crisis by uniting. Further, she also mentioned about the strategies for water conservation by providing information about available resources and support systems, encouraging proactive participation and advocacy for change. Dr. N. Thilaka, Principal IADC-A unveiled the pamphlets for distribution among the general public. Dr. N. Thilaka and Prof. Surya Narayana K.S flagged off the Awareness rally.

The faculty members, committee coordinators, volunteers and students proceeded for the rally to the residential and commercial areas of Hennur. Participants held banners, placards, and posters bearing messages related to the cause. Chants and slogans were raised to capture the attention of bystanders and passersby, effectively drawing them into the cause and distributed pamphlets to the households and the general public. The students educated the community about the water crisis and to take responsibility to conserve water. Following the rally, a street play was staged at certain venues. The play was meticulously scripted to depict real-life scenarios and narratives pertaining to the issue at hand. The play was both informative and engaging, effectively capturing the audience's attention and evoking emotions. The awareness rally and street play served as effective tools for mobilizing the community and fostering dialogue on the highlighted issue for a better world.




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Gallery:



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Bengaluru, Karnataka, India
Indian academy degree college autonomous, Hennur main road, Kalyan nagar
Lat 13.030115°
Long 77.633765°
22/03/24 09:41 AM GMT +05:30

GPS Map Camera

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GPS Map Camera



Bengaluru, Karnataka, India

23 1st Cross, Hennur Rd, near Manjula Bar, HBR Layout 4th Block, Hennur Gardens, Bengaluru, Karnataka

560043, India

Lat 13.032322°

Long 77.635556°

22/03/24 10:40 AM GMT +05:30



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DEPARTMENT OF LIFE SCIENCES - MICROBIOLOGY

Report on Water Quality Analysis by MPN method at IAGI campus

Date: 03.03.2024

Introduction:

The Most Probable Number (MPN) or Multiple Tube Fermentation test is the most oftenly used technique for the sanitary analysis of water. The test is used to detect coliforms. The coliforms are facultatively anaerobic, gram negative, non sporing, rod shaped bacteria that ferment lactose with the production of acid and gas within 24hrs of incubation at 35°C. Coliforms make up approximately 10% of the intestinal microorganisms of humans and other animals and are used as indicator organisms of faecal contamination in water.

The MPN method relies on statistical probability theory to estimate the concentration of microorganisms. The sample is subjected to a series of dilutions, and each dilution is inoculated into a specific culture medium. The presence or absence of growth in each inoculated tube is then observed after a suitable incubation period.

The interpretation of the results is based on the assumption that the distribution of microorganisms in the series of dilutions follows a statistical pattern. By recording the number of positive and negative tubes at different dilutions, a statistical table (such as the MPN table) is consulted to determine the most probable number of microorganisms in the original sample.

Faculty In charge:

Dr. S. Anu Kiruthika

Participated Students:

I Sem M.Sc Microbiology students

Water sample collection:

100ml of water sample was collected form 6 places.

1. Indian Academy PU College.
2. Indian Academy Nursing College.
3. Indian Academy Boys Hostel.
4. Indian Academy Girls Hostel.
5. Indian Academy Degree College.
6. Indian Academy Annexure Block.



*Table 18.1: Most probable number (MPN) of coliform bacteria present in 100 ml water, for various combinations of positive and negative results when five 10 ml portions, five 1ml portions and five 0.1 ml portions are used

Number of five tubes giving a positive reaction			
10 ml	1.0 ml	0.1 ml	MPN Index/100ml
0	0	1	2
0	1	0	2
1	0	0	2
1	0	1	4
1	1	0	4
1	2	0	5
2	0	0	4
2	0	1	5
2	1	0	5
2	1	1	7
2	2	0	7
2	3	0	11
3	0	0	7
3	0	1	9
3	1	0	9
3	1	1	13
3	2	0	13
3	2	1	16
3	3	0	16
4	0	0	11
4	0	1	14
4	1	0	16
4	1	1	20
4	2	0	20
4	2	1	25
4	3	0	25
4	3	1	31
4	4	0	32
4	4	1	38
5	0	0	22
5	0	1	29
5	0	2	41
5	1	0	31
5	1	1	43
5	3	0	75
5	3	1	110
5	3	2	140
5	3	3	175
5	3	4	210
5	4	0	130
5	4	1	170
5	4	2	220
5	4	3	280
5	4	4	345
5	5	0	240
5	5	1	350
5	5	2	540
5	5	3	910
5	5	4	1600

*Modified from Mackie & McCartney Practical Medical Microbiology, Eds Collee, J.G. et al. 14th Ed. (1996) Churchill Livingstone Publishers, N.Y.



Results & Comments:

Place	Double strength lactose broth (10 ml water sample)	Single strength lactose broth (1 ml water sample)	Single strength lactose broth (0.1 ml water sample)	MPN Index/ 100ml	Inference (WHO disease risk level)
PU Block	0	0	0	-	No risk
Boys Hostel	4	1	0	16	Low risk
Girls Hostel	0	0	0	-	No risk
Nursing College	0	0	1	02	No risk
Degree College	0	0	0	-	No risk
Annexure Block	3	2	1	16	Low risk

Conclusion:

The present study showed that in annexure block and boys hostel water sources analysed are contaminated with bacteria. The study area are exposed between No risk and low risk. Therefore, regular tests of water quality in IAGI vicinities are not only advantageous but necessary. Additionally education on proper water storage practices, sanitary ways of handling water, should be done to help to limit water pollution for safe consumption.



Reference Books:

1. K.R. Aneja (2014). Experiments in Microbiology, Plant Pathology and Biotechnology. New Age International (P) Limited. Pg: 363-368.
2. James G. Cappuccino (2016). Microbiology: A Laboratory Manual, 11th Edition - Pearson. Pg No: 297-302.
3. R.C Dubey (2008). Practical Microbiology. S. Chand Company LTD. Pg: 318-321.
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Faculty Incharge

Dr S Anu Kiruthika

Program Coordinator
Program Coordinator - Microbiology
Department of Life Sciences
Dr Malaiyarasa Pandian
Indian Academy Degree College - Autonomous
Bangalore - 560043

HoD

Dr Ananda Vardhan H
HEAD

Department of Life Sciences
Indian Academy Degree College - Autonomous
Bangalore - 560043

Vice Principal

Prof. Rajarajan P

Principal

Dr N. Thilaka
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