



GENERAL REQUEST FORMAT FOR PROGRAMS and EVENTS

Date: 15.03.2019

From,

Head of the department
Pg Department of Microbiology.

To,

The Principal
GEMS Arts and Science College,
Ramapuram, Malappuram, 679321

| Sl No | Name of Department | Name of the Program | Date | Time | |
|-------|-------------------------------|----------------------------------|------------|---------|----|
| | | | | From | To |
| | Pg Department of Microbiology | Water quality assessment program | 19.03.2019 | 1:30 PM | |

Venue: Microbiology Laboratory.

Resource person (if any):

Associating Clubs/Departments (if any):

Sanctioning Details:

Approved

Not Approved

PRINCIPAL
GEMS ARTS AND SCIENCE COLLEGE
KADUNGAPURAM P.O. - RAMAPURAM
MALAPPURAM DT. - 679321, KERALA

Signature

Head of the Department
Department of Microbiology
GEMS Arts & Science College
Ramapuram, Kadungapuram Post
Malappuram (Dt.) - 679321 Seal

- Note: 1. Brochure shall be displayed/circulated in the college notice board.
2. Program Report shall be submitted within 5 days.

Circular No: MB/18-19/009

Date: 16.03.2019

CIRCULAR

This is to inform you all that the PG Department of Microbiology is organizing a Water Quality Assessment Program for the Public.

Programme Details-

- **Date and Time** : 19.03.2019, 1.30 PM
- **Venue** : Microbiology Laboratory



Head of the Department
Department of Microbiology
GEMS Arts & Science College
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GEMS Arts and Science College

PG Department Of Microbiology

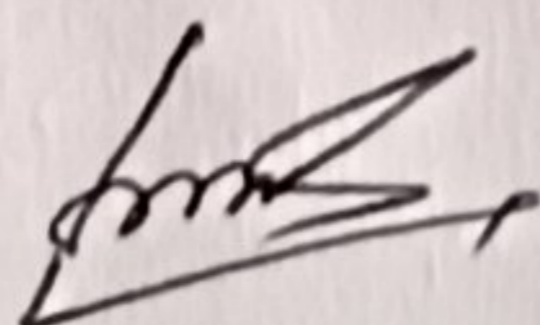
**WATER QUALITY
ASSESSMENT PROGRAM**



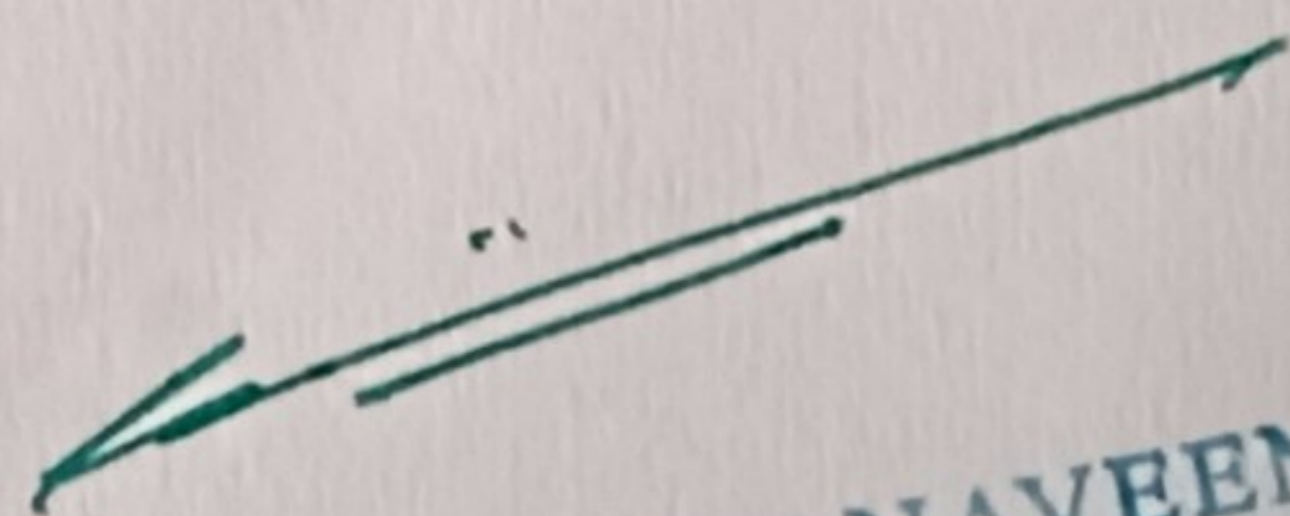
Date: 19.03.2019

Time: 1.30 pm

Venue: Microbiology Laboratory

Radhika R Krishna 

Head of the Department
Department of Microbiology
GEMS Arts & Science College
Ramapuram, Kadungapuram Post
Malappuram (Dt.) - 679 321




Dr. NAVEEN MOHAN
PRINCIPAL
GEMS ARTS AND SCIENCE COLLEGE
KADUNGAPURAM (PO), RAMAPURAM
MALAPPURAM DT., KERALA-679 321

PROGRAM REPORT
WATER QUALITY ASSESSMENT PROGRAM FOR PUBLIC
19.03.2019

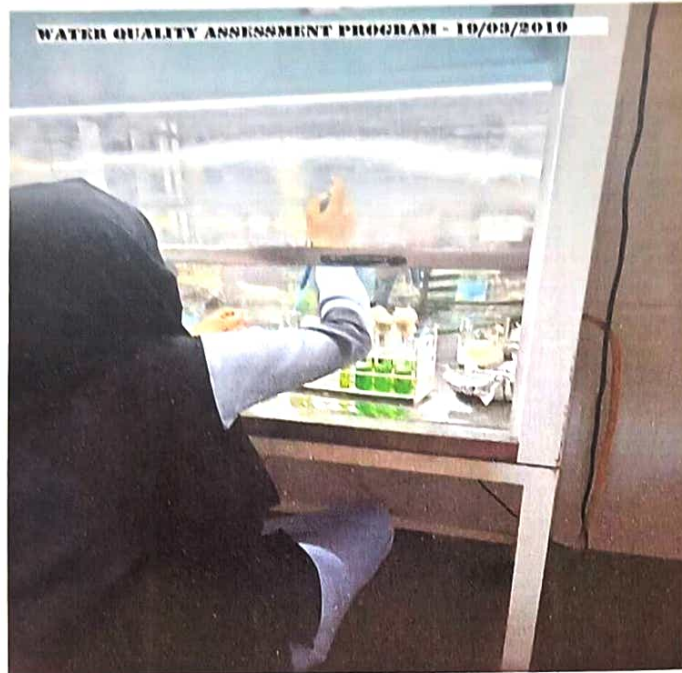
The PG Department of Microbiology conducted a Water Quality Assessment Programme on 19-03-2019, utilizing the Most Probable Number (MPN) test as a vital tool to evaluate the safety and purity of water sources. This initiative aimed to provide valuable insights into the microbial contamination levels in water samples collected from various sources, including households near the college. Under the able coordination of esteemed faculty members, Ms. Resna N K and Ms. Shameema M, the programme was executed with precision and scientific rigor. To commence the programme, a team of dedicated students embarked on a systematic sample collection process. They gathered water samples from diverse locations, including taps within households, water storage tanks, and various points within the college premises. These samples represented a cross-section of water sources, enabling a comprehensive assessment of water quality.


The MPN test, widely recognized for its effectiveness in quantifying coliform bacteria and fecal contamination, was employed to analyze the collected samples. The MPN test involves a series of dilutions and incubation steps to estimate the concentration of microorganisms present in the water. This method provides a reliable indicator of the overall microbial quality and safety of the water. The findings from the Water Quality Assessment Programme were instrumental in identifying potential risks associated with waterborne diseases and microbial contamination. It allowed for targeted interventions to improve water quality in specific areas, particularly within the college premises. Recommendations for water treatment and sanitation measures were made based on the results, contributing to a safer and healthier environment. This program not only contributed to the well-being of the community but also showcased the department's commitment to scientific excellence and societal welfare.




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MALAPPURAM DT., KERALA-679 321

Photographs




Dr. NAVEEN MOHAN
PRINCIPAL
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KADUNGAPURAM (PO), RAMAPURAM
MALAPPURAM DT., KERALA-679 321

Water Quality Assessment Program - 2019

13

Date : 19.03.2019

Time : 1:30 pm

Venue: Microbiology Laboratory

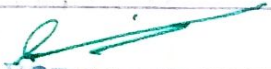
Participants

- | | | | |
|----|-----------------|-------|--------------------|
| 1. | Ashwita K.M | S4 PG | Ash |
| 2. | Akhila-N | " | Ash |
| 3. | Rida Risni | " | Rida |
| 4. | Lehlya Sudhakar | " | Lehlya |
| 5. | Shadiya C | " | Shadiya |
| 6. | Shuhana K.T | S2 PG | Shuhana |
| 7. | Hanan K.P | " | Hanan |

Radbika R Krishna



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PG DEPARTMENT OF MICROBIOLOGY
GEMS Arts and Science College, Ramapuram, Malappuram, Kerala
mbmicrogems@gmail.com

WATER ANALYSIS RESULT

Report No: GEMS/WQA/MBG/2018-2019/0001

Date: 19/03/2019

| | | |
|---|-------------------------|--------------------------|
| Customer Name and address | Date of sample received | 19/03/2019 |
| HAMZA KOYA K P KANGATTU PUTHAN VEETIL(H) VADAKKANGARA (PO) MALAPPURAM (DT) 679324 | Sampling Done By | CUSTOMER |
| | Sample Code | WQA/MBG/2018-2019/0001 |
| | Source of sample | WELL |
| | Sample Quantity | 1000ml |
| | Test Performed Dates | 19/03/2019 TO 22/03/2019 |

| Sl. No | Characteristics | Unit | Range | Result |
|--------|------------------------|------------|------------|---------|
| 1. | pH | - | 6.5 - 8.5 | 7 |
| 2. | Total Alkalinity | mg/l | 10 - 300 | 60mg/l |
| 3. | Total Hardness | mg/l | 25 - 300 | 80mg/l |
| 4. | Chloride | mg/l | 10 - 300 | 80mg/l |
| 5. | Nitrate | mg/l | 0.0 - 80.0 | 0.0mg/l |
| 6. | Fluoride | mg/l | 0.0 - 5.0 | 0.0mg/l |
| 7. | Iron | mg/l | 0.0 - 5.0 | 0.3mg/l |
| 8. | Residual Free Chlorine | mg/l | 0.0 - 3.0 | 0.2mg/l |
| 9. | Ammonia | mg/l | 0.0 - 1.0 | 0.0mg/l |
| 10. | Turbidity | NTU | 0.0 - 80 | 5 NTU |
| 11. | Bacteriological Test | MPN/100 ml | 0/100ml | 3/100ml |

Remarks: The given water sample can be used for drinking purpose only after any of the water purification procedures like boiling, filtration and UV treatment.

Microbiologist

RESNA N K

Head of the Department

Radhika R Krishna

Head of the Department
GEMS Arts & Science College
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Malappuram (Dt.) - 679 321

Principal

PRINCIPAL

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