

PROJECT REPORT of B.Sc. 6th SEM
BOTANY (MAJOR)
ON MICROBIOLOGY OF WATER



**Physico-Chemical and Microbial Analysis of
Drinking Water Quality of some areas of
Tinsukia Town with special reference to
'COLIFORM BACTERIA'**

Examiner
[Signature]

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Certificate

This is to certify that Dipen Das, student of B.Sc. 6th semester, Botany (Major) of Tinsukia College has completed his Project work report entitled 'Physico-chemical and microbial analysis of drinking water quality of some areas of Tinsukia with special reference to Coli form Bacteria' successfully as a part of the syllabus (for the academic session 2016-2017) under my guidance.

This is a bonafide record performed by him.

He is being wished with the very best of his luck for the future.

Date: 18-5-2017

Sanjukta Gohain Baruah

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~~Head~~
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Preface

This Project report is the combination of our Experimental work on microbiology of water based on botanical study. Being a student of B. Sc. 6th semester Botany (Major) of Tinsukia College we have undertaken this Project report entitled 'Physico-chemical and microbial analysis of drinking water quality of some areas of Tinsukia with special reference to COLIFORM BACTERIA', as a part of the syllabus under Dibrugarh University during session 2016-17. This report has been made full care following the various suggestions received from teachers. It is hoped this report will be accepted under due consideration.

ACKNOWLEDGEMENT

It is my utmost privilege in presenting the concerned Project work. In this regard, I would like to pay my heart-full thanks and gratitude to Dr. (Mrs.) Sanjukta Gohain Baruah, Associate Professor & HOD, for her cordial co-operation and guidance in making the Project work a success.

I am also grateful to our Laboratory assistant Sri Lilakanta Bhattarai for his valuable advice and co-operation in our project work.

It is also my duty to owe my deep sense of gratitude to all my fellow members in the project for their help and support required for the completion of our project report.

Dipen Das



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Photographs



Fig 1: Coliform bacteria found on sample 1



Fig 2: Light red coloured coliform bacteria of sample 2.

Photographs



Fig 3: white coloured irregular coliform bacteria of sample 3.

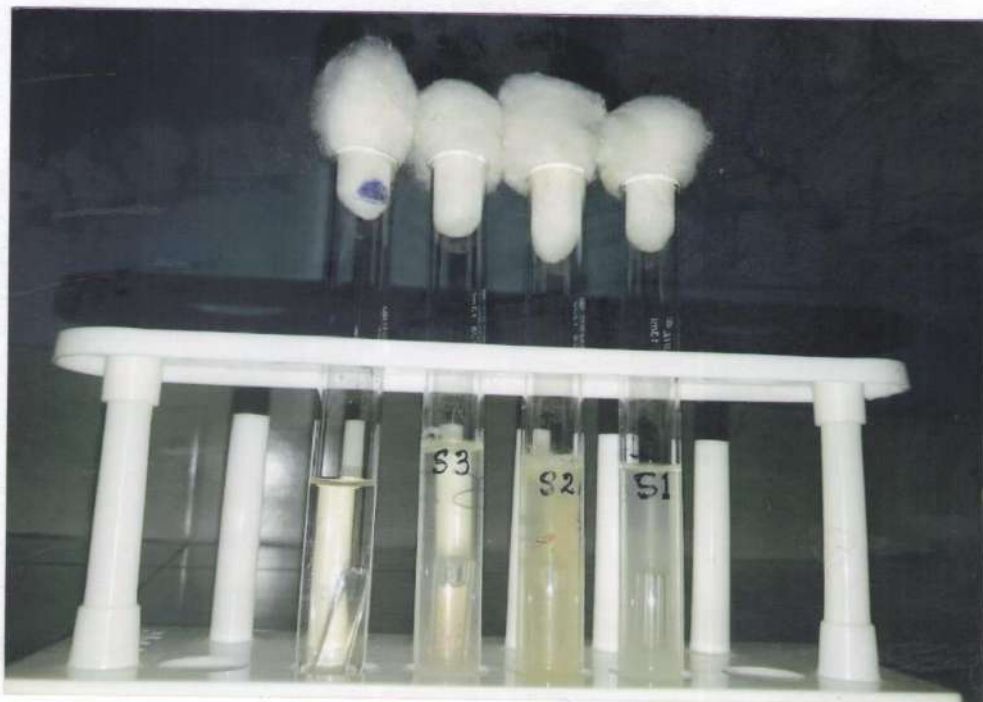


Fig 4: Incubated test tube of sample 1, 2 and 3 which shows acid and gas formation.

Photographs



Fig 5: Incubated water sample of 4,5,6



Fig 6. Production of red pink coloured which indicates the presence of indole in the samples.