

2017

“Assessment of water quality in Garampani wildlife sanctuary of KarbiAnlong district of Assam with special reference to Fluoride.”



This project work has been submitted to the department of Chemistry, D. R. College, Golaghat, Assam for the partial fulfillment of award of Bachelors degree of Science of Dibrugarh University.

*(As per syllabus of 6<sup>TH</sup> Semester, Major DU)*

Submitted by:

Amlan Dutta

Seen  
Dutta  
2/6/17<sup>TH</sup> Semester (Chemistry Major)

Regn No. 14034303

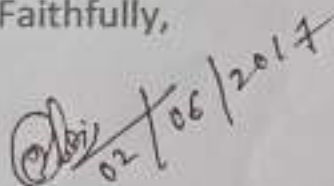
Roll No. 22820003

## Certificate

This is to certify that the Project Work entitled "Assessment of water quality in Garampani wildlife sanctuary of Karbi Anlong district of Assam with special reference to Fluoride" submitted by Amlan Dutta, a student of B.Sc. (Major Chemistry), D.R. College, under DU has been completed under my supervision. This work is the result of his own investigation and to the best of my knowledge; this report has not been submitted to any other institution of University for a degree or diploma.

Date: 02/06/2017

Yours Faithfully,

A handwritten signature in black ink, appearing to read 'Mridul Chetia', with the date '02/06/2017' written below it.

(Dr. Mridul Chetia)

Assistant Professor, Chemistry

D.R. College, Golaghat- 785621 (Assam)

“Assessment of water quality in Garampani wildlife sanctuary of KarbiAnlong district of Assam with special reference to Fluoride.”



This project work has been submitted to the department of Chemistry,  
D. R. College, Golaghat, Assam for the partial fulfillment of award of  
Bachelors degree of Science of Dibrugarh University.

*(As per syllabus of 6<sup>TH</sup> Semester, Major DU)*

Seen  
Dutta  
21/6/17

Submitted by:

Meghnath Kalita

6<sup>TH</sup> Semester (Chemistry Major)

Regn No. 14034371

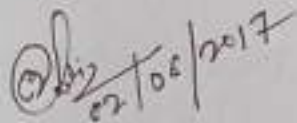
Roll No. 22820035

## Certificate

This is to certify that the Project Work entitled "Assessment of water quality in Garampani wildlife sanctuary of Karbi Anlong district of Assam with special reference to Fluoride" submitted by Meghnath Kalita, a student of B.Sc. (Major Chemistry), D.R. College, under DU has been completed under my supervision. This work is the result of his own investigation and to the best of my knowledge; this report has not been submitted to any other institution of University for a degree or diploma.

Date: 02/06/2017

Yours Faithfully,



(Dr. Mridul Chetia)

Assistant Professor, Chemistry

D.R. College, Golaghat- 785621 (Assam)

“Assessment of water quality in Garampani wildlife sanctuary of KarbiAnlong district of Assam with special reference to Fluoride.”



This project work has been submitted to the department of Chemistry,  
D. R. College, Golaghat, Assam for the partial fulfillment of award of  
Bachelors degree of Science of Dibrugarh University.

*(As per syllabus of 6<sup>TH</sup> Semester, Major DU)*

Seen  
Date 2/6/17

Submitted by:

Mousum Saikia

6<sup>TH</sup> Semester (Chemistry Major)

Regn No. 14034377

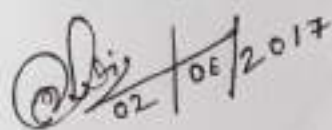
Roll No. 22820038

## Certificate

This is to certify that the Project Work entitled "Assessment of water quality in Garampani wildlife sanctuary of Karbi Anlong district of Assam with special reference to Fluoride" submitted by Mousum Saikia, a student of B.Sc. (Major Chemistry), D.R. College, under DU has been completed under my supervision. This work is the result of his own investigation and to the best of my knowledge; this report has not been submitted to any other institution of University for a degree or diploma.

Date: 02/08/2017

Yours Faithfully,



(Dr. Mridul Chetia)

Assistant Professor, Chemistry

D.R. College, Golaghat- 785621 (Assam)

**PROJECT REPORT  
ON**

**GROUND WATER QUALITY PARAMETERS AND THEIR  
STATISTICAL INTERPRETATION-WITH PARTICULAR  
REFERENCE TO GOLAGHAT TOWN.**



**Submitted to the  
DEPARTMENT OF CHEMISTRY,  
D.R. COLLEGE GOLAGHAT**

**UNDER DIBRUGARH UNIVERSITY, DIBRUGARH  
(As per Syllabus of 6th Semester, Major DU)**

**Submitted By:  
SYEDA TANJIHA KHANAM  
ROLL NO.: 22820106  
REGISTRATION NO.:14034443  
YEAR: 2017**

## CERTIFICATE

*Dr. Nripen Kr. Boruah, M. Sc., Ph. D (GU)*

*Deptt. Of Chemistry*

*D. R. College, Golaghat.*

*This is to certify that the project entitled "Ground water quality parameters and their statistical interpretation- with particular reference to Golaghat town" submitted by Syeda Tanjiha Khanam, a student of 6<sup>th</sup> semester bearing Roll No. 22820106, Registration No. 14034443 of D. R. College centre, Golaghat has been completed under my supervision at Golaghat town. The project report is the result of her own investigations and she has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.*

*Seen  
Date 2/6*



*(Dr. N. K. Boruah)*



**PROJECT REPORT**  
**ON**  
**GROUND WATER QUALITY PARAMETERS AND THEIR**  
**STATISTICAL INTERPRETATION-WITH PARTICULAR**  
**REFERENCE TO GOLAGHAT TOWN.**



**Submitted to the**  
**DEPARTMENT OF CHEMISTRY,**  
**D.R. COLLEGE GOLAGHAT**

**UNDER DIBRUGARH UNIVERSITY, DIBRUGARH**  
**(As per Syllabus of 6th Semester, Major DU)**

**Submitted By:**  
**SANGITA BHARALI**  
**ROLL NO.: 22820099**  
**REGISTRATION NO.:14034421**  
**YEAR: 2017**

## CERTIFICATE

Dr. Nripen Kr. Boruah, M. Sc., Ph. D (GU)  
Dept. Of Chemistry  
D. R. College, Golaghat.

This is to certify that the project entitled "Ground water quality parameters and their statistical interpretation- with particular reference to Golaghat town" submitted by Miss Sangita Bharali, a student of 6<sup>th</sup> semester bearing Roll No. 22820099, Registration No. 14034421 of D. R. College centre, Golaghat has been completed under my supervision at Golaghat town. The project report is the result of her own investigations and she has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Seen  
Date 21/6/17



(Dr. N. K. Boruah)

**PROJECT REPORT  
ON**

**GROUND WATER QUALITY PARAMETERS AND THEIR  
STATISTICAL INTERPRETATION-WITH PARTICULAR  
REFERENCE TO GOLAGHAT TOWN.**



**Submitted to the  
DEPARTMENT OF CHEMISTRY,  
D.R. COLLEGE GOLAGHAT**

**UNDER DIBRUGARH UNIVERSITY, DIBRUGARH  
(As per Syllabus of 6th Semester, Major DU)**

**Submitted By:  
PRATYASHEE BARUKIAL  
Roll No.: 22820090  
Registration No.:14034399  
Year: 2017**

## CERTIFICATE

*Dr. Nripen Kr. Boruah, M. Sc., Ph. D (GU)*

*Deptt. Of Chemistry*

*D. R. College, Golaghat.*

*This is to certify that the project entitled "Ground water quality parameters and their statistical interpretation- with particular reference to Golaghat town" submitted by Miss Pratyashee Barukial, a student of 6<sup>th</sup> semester bearing Roll No. 22820090, Registration No. 14034399 of D. R. College centre, Golaghat has been completed under my supervision at Golaghat town. The project report is the result of her own investigations and she has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.*

*Seen  
Date  
21/6/17*



*(Dr. N. K. Boruah)*

**PROJECT REPORT**  
**ON**  
**GROUND WATER QUALITY PARAMETERS AND THEIR**  
**STATISTICAL INTERPRETATION-WITH PARTICULAR**  
**REFERENCE TO GOLAGHAT TOWN.**



**Submitted to the**  
**DEPARTMENT OF CHEMISTRY,**  
**D.R. COLLEGE GOLAGHAT**

**UNDER DIBRUGARH UNIVERSITY, DIBRUGARH**  
**(As per Syllabus of 6th Semester, Major DU)**

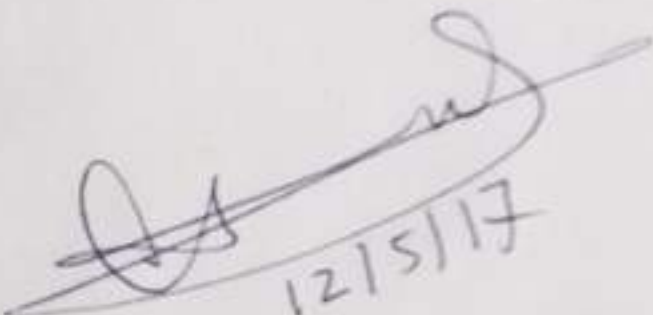
**Submitted By:**  
**PRIYA MAZUMDER**  
**ROLL NO.: 22820091**  
**REGISTRATION NO.:14034401**  
**YEAR: 2017**

## CERTIFICATE

Dr. Nripen Kr. Boruah, M. Sc., Ph. D (GU)  
Deptt. Of Chemistry  
D. R. College, Golaghat.

This is to certify that the project entitled "Ground water quality parameters and their statistical interpretation- with particular reference to Golaghat town" submitted by Miss Priya Mazumder, a student of 6<sup>th</sup> semester bearing Roll No. 22820091, Registration No. 14034401 of D. R. College centre, Golaghat has been completed under my supervision at Golaghat town. The project report is the result of her own investigations and she has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Seen  
Date 2/6/17

  
12/5/17  
(Dr. N. K. Boruah)

**PROJECT REPORT**  
**ON**  
**GROUND WATER QUALITY PARAMETERS AND THEIR**  
**STATISTICAL INTERPRETATION-WITH PARTICULAR**  
**REFERENCE TO GOLAGHAT TOWN.**



**Submitted to the**  
**DEPARTMENT OF CHEMISTRY,**  
**D.R. COLLEGE GOLAGHAT**

**UNDER DIBRUGARH UNIVERSITY, DIBRUGARH**  
**(As per Syllabus of 6th Semester, Major DU)**

**Submitted By:**  
**DEBAJIT BORA**  
**ROLL NO.: 22820016**  
**REGISTRATION NO.:14034329**  
**YEAR: 2017**

## CERTIFICATE

*Dr. Nripen Kr. Boruah, M. Sc., Ph. D (GU)*

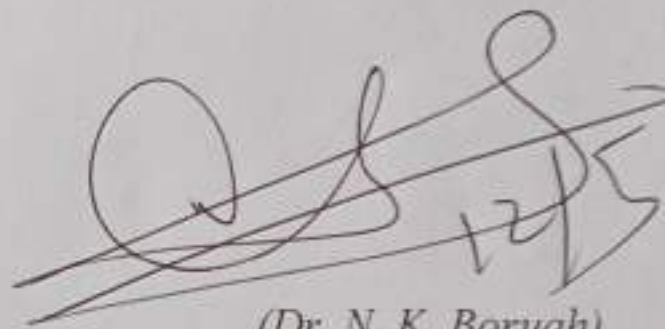
*Deptt. Of Chemistry*

*D. R. College, Golaghat.*

*This is to certify that the project entitled "Ground water quality parameters and their statistical interpretation- with particular reference to Golaghat town" submitted by Sri Debajit Bora, a student of 6<sup>th</sup> semester bearing Roll No. 22820016, Registration No. 14034329 of D. R. College centre, Golaghat has been completed under my supervision at Golaghat town. The project report is the result of his own investigations and he has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.*

*Seen*

*B. K. B. 2/6/17*



*(Dr. N. K. Boruah)*



A Project Report

On

**Conversion of Raw Sugarcane Bagasse into  
Nanocellulose and its Characterization**



Submitted to

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT,  
UNDER DIBRUGARH UNIVERSITY, DIBRUGARH  
*(As Per Syllabus of 6<sup>th</sup> Semester, Major Course, DU)*

BY

Sri Dimbeswar Bora

ROLL:228

NO: 20024

YEAR: 2017

Seen  
Date 2/6/17



Mr. Bedanta Kr.Bora, M.Sc. (GU)

Associate. Professor &

HOD of Dept of Chemistry

D. R. College, Golaghat

Email: bedanta69@gmail.com

---

## CERTIFICATE

This is to certify that the project entitled **Conversion of Raw Sugarcane Bagasse into Nanocellulose and its Characterization** submitted by Sri Dimbeswar Bora student of 6<sup>th</sup> semester bearing Roll: 228 , No 20024 of D.R. College centre (Centre Code: 227 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his own investigations and he has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Date:

Bedanta Kumar Bora

Place: Golaghat

A Project Report

On

**“Conversion of Raw Sugarcane Bagasse into  
Nanocellulose and its Characterization”**



Submitted to

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT,

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

*(As Per Syllabus of 6<sup>th</sup> Semester, Major Course, DU)*

BY

Pinki Bora

ROLL: 228

NO: 20089

YEAR: 2017

Seen  
Date 2/6/17



Mr. Bedanta Kr. Bora, M.Sc. (GU)  
Associate Professor &  
HOD of Dept of Chemistry  
D. R. College, Golaghat  
Email: bedanta69@gmail.com

## CERTIFICATE

This is to certify that the project entitled "Conversion of Raw Sugarcane Bagasse into Nanocellulose and its Characterization" submitted by Sri Pinki Bora, a student of 6<sup>th</sup> semester bearing Roll: 228..., No... 20089.... of D.R. College centre (Centre Code: 227 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his own investigations and he has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Date: 20/5/22  
Place: Golaghat

  
Bedanta Kumar Bora

A Project Report

On

**“Conversion of Raw Sugarcane Bagasse into  
Nanocellulose and its Characterization”**



Submitted to

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT,

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

*(As Per Syllabus of 6<sup>th</sup> Semester, Major Course, DU)*

BY

Sri Ashok Barhoi

ROLL:228

NO: 20009

YEAR: 2017

Seen  
Date  
21/6/17



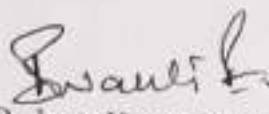
Mr. Bedanta Kr. Bora, M.Sc. (GU)  
Associate Professor &  
HOD of Dept of Chemistry  
D. R. College, Golaghat  
Email: bedanta69@gmail.com

## CERTIFICATE

This is to certify that the project entitled "Conversion of Raw Sugarcane Bagasse into Nanocellulose and its Characterization" submitted by Sri Ashok Barboi, a student of 6<sup>th</sup> semester bearing Roll: 228..., No...20009... of D.R. College centre (Centre Code: 227 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his own investigations and he has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Date: 20/5/17.

Place: Golaghat

  
Bedanta Kumar Bora

A Project Report

On

**“Conversion of Raw Sugarcane Bagasse into  
Nanocellulose and its Characterization”**



Submitted to

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT,  
UNDER DIBRUGARH UNIVERSITY, DIBRUGARH  
*(As Per Syllabus of 6<sup>th</sup> Semester, Major Course, DU)*

BY

Sri Naba Jyoti Dutta

ROLL:228

NO: 20039

YEAR: 2017



Mr. Bedanta Kr.Bora, M.Sc. (GU)

Associate. Professor &

HOD of Dept of Chemistry

D. R. College, Golaghat

Email: bedanta69@gmail.com

## CERTIFICATE

This is to certify that the project entitled "Conversion of Raw Sugarcane Bagasse into Nanocellulose and its Characterization" submitted by Sri Nabajyoti dutta a student of 6<sup>th</sup> semester bearing Roll: 228..., No...20039... of D.R. College centre (Centre Code: 227 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his own investigations and he has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Date:

Bedanta Kumar Bora

Place: Golaghat



# 2017

A Project Report

On

**“Conversion of Raw Sugarcane Bagasse into  
Nanocellulose and its Characterization”**



Submitted to

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT,  
UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

*(As Per Syllabus of 6<sup>th</sup> Semester, Major Course, DU)*

BY

Sri Pankaj Bordoloi

ROLL: 228

NO: 20041

YEAR: 2017

*Seen  
Date 2/6/17*



Mr. Bedanta Kr. Bora, M.Sc. (GU)  
Associate, Professor &  
HOD of Dept of Chemistry  
D. R. College, Golaghat  
Email: bedanta69@gmail.com

## CERTIFICATE

This is to certify that the project entitled "Conversion of Raw Sugarcane Bagasse into Nanocellulose and its Characterization" submitted by Sri Pankaj Bordoloi, a student of 6<sup>th</sup> semester bearing Roll: 228..., No...20041.... of D.R. College centre (Centre Code: 227 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his own investigations and he has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Date: 20/11/22

Place: Golaghat

Bedanta Kumar Bora

A Project Report

On

**“Separation and characterization of cellulose  
from pineapple leaf”**



Submitted to

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT,

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

*(As Per Syllabus of 6<sup>th</sup> Semester, Major Course, DU)*

BY

ANINDITA BORA

ROLL: 228

NO: 20065

YEAR: 2017

Seen  
Date 2/6/17



Dr. Suvangshu Dutta, M.Sc. (GU), Ph. D. (TU)

Sr. Asst. Professor, Dept. of Chemistry

D. R. College, Golaghat

Email. suvangshu@rediffmail.com

---

## CERTIFICATE

This is to certify that the project entitled ***"Seperation and characterization of cellulose from pineapple leaf"*** submitted by, ANINDITA BORA a student of 6<sup>th</sup> semester bearing Roll:228, No:20065 of D.R. College centre (Centre Code: 227 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his own investigations and he has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Date: 31/05/2017

Place: Golaghat

(Dr. Suvangshu Dutta)

A Project Report

On

**“Seperation and characterization of cellulose  
from pineapple leaf”**



Submitted to

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT,

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

*(As Per Syllabus of 6<sup>th</sup> Semester, Major Course, DU)*

BY

Bitupon Borca

ROLL: 228.....

NO: 20014.....

YEAR: 2017

Seen  
Dutta  
21/6/17



Dr. Suvangshu Dutta, M.Sc. (GU), Ph. D. (TU)  
Sr. Asst. Professor, Dept. of Chemistry  
D. R. College, Golaghat  
Email: suvangshu@rediffmail.com

---

## CERTIFICATE

This is to certify that the project entitled "Seperation and characterization of cellulose from pineapple leaf" submitted by Sri Bitupon Bora, a student of 6<sup>th</sup> semester bearing Roll: ২২৭, No. ২০০১৭ of D.R. College centre (Centre Code: 22৪ under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his own investigations and he has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Date: 31/05/2017

Place: Golaghat

(Dr. Suvangshu Dutta)

Sri Bitupon Bora

2017

2017

A Project Report

On

**“Separation and characterization of cellulose  
from pineapple leaf”**



Submitted to

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT,

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

*(As Per Syllabus of 6<sup>th</sup> Semester, Major Course, DU)*

BY

Sri Sidhartha Protim Bortamuli

ROLL: 228

NO: 20053

YEAR: 2017

*Seen  
Dish  
21/6/17*



Dr. Suvangshu Dutta, M.Sc. (GU), Ph. D. (TU)  
Sr. Asst. Professor, Dept. of Chemistry  
D. R. College, Golaghat  
Email: suvangshu@rediffmail.com

---

## CERTIFICATE

This is to certify that the project entitled "Seperation and characterization of cellulose from pineapple leaf" submitted by Sri Sidhartha Protim Bortamuli, a student of 6<sup>th</sup> semester bearing Roll:228, No:20053 of D.R. College centre (Centre Code: 227 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his own investigations and he has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Date: 31/05/2017

Place: Golaghat

(Dr. Suvangshu Dutta)



A Project Report

On

**“Seperation and characterization of cellulose  
from pineapple leaf”**



Submitted to

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT,

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

*(As Per Syllabus of 6<sup>th</sup> Semester, Major Course, DU)*

BY

Sourav Borgehain

ROLL:.....২২৯.....

NO: .....২০০৫৪.....

YEAR: 2017

Seen

2/16



Dr. Suvangshu Dutta, M.Sc. (GU), Ph. D. (TU)  
Sr. Asst. Professor, Dept. of Chemistry  
D. R. College, Golaghat  
Email: suvangshu@rediffmail.com

---

## CERTIFICATE

This is to certify that the project entitled "Seperation and characterization of cellulose from pineapple leaf" submitted by Sri সুবংশু ভট্টাচার্য্য a student of 6<sup>th</sup> semester bearing Roll: ৯৯.৯ No ৯০০৯৬ of D.R. College centre (Centre Code: 227 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his own investigations and he has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Date: 31/05/2017

Place: Golaghat

(Dr. Suvangshu Dutta)

A Project Report

On

**“Separation and characterization of cellulose  
from pineapple leaf”**



Submitted to

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT,

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

*(As Per Syllabus of 6<sup>th</sup> Semester, Major Course, DU)*

BY

Miss Pallabi Phukan

ROLL: 228

NO: 20087

YEAR: 2017



Dr. Suvangshu Dutta, M.Sc. (GU), Ph. D. (TU)  
Sr. Asst. Professor, Dept. of Chemistry  
D. R. College, Golaghat  
Email: suvangshu@rediffmail.com

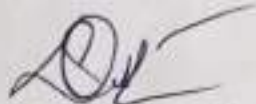
---

## CERTIFICATE

This is to certify that the project entitled "Separation and characterization of cellulose from pineapple leaf" submitted by Miss Pallabi Phukan, a student of 6<sup>th</sup> semester bearing Roll:228, No:20087 of D.R. College centre (Centre Code: 227 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his own investigations and he has fulfilled all the requirements prescribed under the project regulations of Dibrugarh University syllabus of 6<sup>th</sup> semester.

Date: 31/05/2017

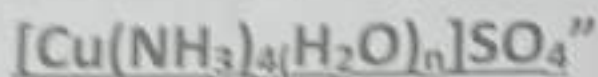
Place: Golaghat

  
(Dr. Suvangshu Dutta)

A Project Report

On

"Synthesis and Characterization of  
tetraamminecopper(II)sulphate



Submitted to

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

(As per Syllabus of 6<sup>th</sup> Semester, Major Course)

BY

PUJA SAIKIA

ROLL: 228

NO: 20095

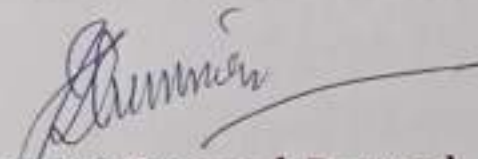
YEAR: 2017

Seen  
Date  
2/6

# CERTIFICATE

This is to certify that the project entitled “Synthesis and characterization of tetraaminecopper(II)sulphate  $[\text{Cu}(\text{NH}_3)_4(\text{H}_2\text{O})_n\text{SO}_4$ ” submitted by PUJA SAIKIA, a student of 6<sup>th</sup> Semester bearing Roll: 222, No: 20095 of D.R. College Centre (Centre Code :277 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his/her own investigations and he/she has fulfilled all the requirements prescribed under the project regulations of DU syllabus.

Date: 02/06/17

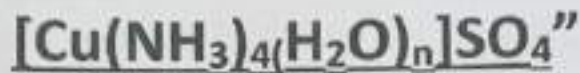
  
(Jyoti Prasad Dutta)

Place: Golaghat

A Project Report

On

**"Synthesis and Characterization of  
tetraaminecopper(II)sulphate**



**Submitted to**

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE ,GOLAGHAT

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

(As per Syllabus of 6<sup>th</sup> Semester, Major Course)

**BY**

Duke Romjan Hazarika Thengal.

**ROLL:** 228

**NO:** 20026

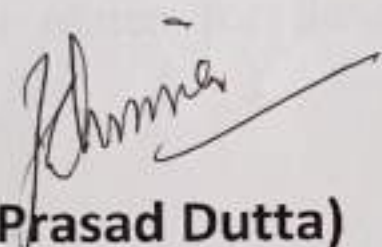
**YEAR:** 14034340

Seen  
Duke  
21/6

# CERTIFICATE

This is to certify that the project entitled “Synthesis and characterization of tetraamminecopper(II)sulphate [Cu(NH<sub>3</sub>)<sub>4</sub>(H<sub>2</sub>O)<sub>n</sub>]SO<sub>4</sub>” submitted by Dutta Rojion Hegabika Ghengal, a student of 6<sup>th</sup> Semester bearing Roll: 228, No: 20026 of D.R. College Centre (Centre Code :277 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his/her own investigations and he/she has fulfilled all the requirements prescribed under the project regulations of DU syllabus.

Date: 2-6-2017

  
(Jyoti Prasad Dutta)

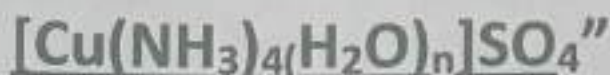
Place: Golaghat



A Project Report

On

**“Synthesis and Characterization of  
tetraaminecopper(II)sulphate**



**Submitted to**

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

(As per Syllabus of 6<sup>th</sup> Semester, Major Course)

**BY**

SHANTANU SHANKAR BORAH

**ROLL:** 228

**NO:** 20051

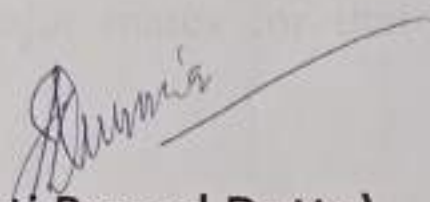
**YEAR:** 2017

Seen  
Datta  
2/6

## CERTIFICATE

This is to certify that the project entitled “Synthesis and characterization of tetraaminecopper(II)sulphate  $[\text{Cu}(\text{NH}_3)_4(\text{H}_2\text{O})_n]\text{SO}_4$ ” submitted by SHANTANU SHANKAR BORAH, a student of 6<sup>th</sup> Semester bearing Roll: 228, No: 20051 of D.R. College Centre (Centre Code :277 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his/her own investigations and he/she has fulfilled all the requirements prescribed under the project regulations of DU syllabus.

Date: 02-06-17

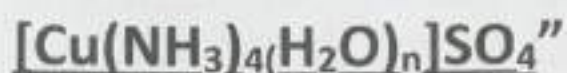
  
(Jyoti Prasad Dutta)

Place: Golaghat

A Project Report

On

“Synthesis and Characterization of  
tetraamminecopper(II)sulphate



**Submitted to**

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

(As per Syllabus of 6<sup>th</sup> Semester, Major Course)

**BY**

Rakhyashree Neog

**ROLL:** 22820078

**NO:** 20078.

**YEAR:** 2017

Seen

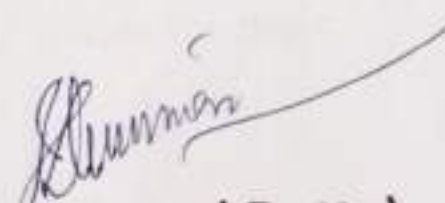
21/6/17

# CERTIFICATE

This is to certify that the project entitled “Synthesis and characterization of tetraaminecopper(II)sulphate [Cu(NH<sub>3</sub>)<sub>4</sub>(H<sub>2</sub>O)<sub>n</sub>]SO<sub>4</sub>” submitted by Kalyashree Neog, a student of 6<sup>th</sup> Semester bearing Roll: 228, No: 20078 of D.R. College Centre (Centre Code :277 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his/her own investigations and he/she has fulfilled all the requirements prescribed under the project regulations of DU syllabus.

Date: 02/06/17

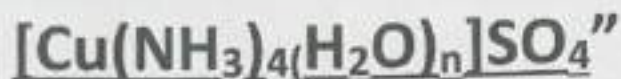
Place: Golaghat

  
(Jyoti Prasad Dutta)

A Project Report

On

**“Synthesis and Characterization of  
tetraaminecopper(II)sulphate**



**Submitted to**

DEPARTMENT OF CHEMISTRY, D.R. COLLEGE, GOLAGHAT

UNDER DIBRUGARH UNIVERSITY, DIBRUGARH

(As per Syllabus of 6<sup>th</sup> Semester, Major Course)

**BY**

Sabir Ahmed Zaman

**ROLL: 228**

**NO: 20048**


**YEAR: 2017**

Seen  
Dutta  
2/6

# CERTIFICATE

This is to certify that the project entitled “Synthesis and characterization of tetraamminecopper(II)sulphate  $[\text{Cu}(\text{NH}_3)_4(\text{H}_2\text{O})_n]\text{SO}_4$ ” submitted by Sabir Ahmad Zaman, a student of 6<sup>th</sup> Semester bearing Roll: 228, No: 20048 of D.R. College Centre (Centre Code :277 under DU), Golaghat has been completed under my supervision at D.R. College, Golaghat. The project report is the result of his/her own investigations and he/she has fulfilled all the requirements prescribed under the project regulations of DU syllabus.

Date: 2nd June, 2017

  
(Jyoti Prasad Dutta)

Place: Golaghat