

Prof. Abhik Gupta

Department of Ecology and Environmental Science, Assam University Silchar

Certificate

This is to certify that the dissertation entitled "Biosorption and removal of Iron from aqueous solution by leaf biomass of Clerodendrum Infortunatum", submitted by Miss Chandraprabha Deb, Roll — 041917, No- 22010386, Registration No. -01-140060380 of 2014-2015, in the partial fulfillment of the degree of Master of Science in the Department of Ecology and Environmental Science, 2019, Assam University, Silchar, embodies the record of original investigation carried out by her under my supervision.

Counter Signature

Head of the Department

Ecology and Environmental Science

Assam University, Silchar

Signature of Supervisor

Place - Assam University, Silchar

Date - 27/05/2019

DEPARTMENT OF ECOLOGY AND ENVIRONMENTAL SCIENCE ASSAM UNIVERSITY, SILCHAR



This is to certified that the dissertation entitled "ASSESMENT OF DRINKING WATER IN THE RIPARIAN VILLAGES OF CHATLA FLOODPLAIN WETLAND IN BARAK VALLEY, ASSAM" submitted by KAMAL ROY bearing Roll: 041917 No: 22010413 of Regn. No: 01-170099400 of 2017-2018 for the partial fulfilment of Master Degree in Ecology and Environmental Science, 2019, Assam University, Silchar, embodies the records of original investigators carried out by him under my supervision.

Date: 28/05/2019

Place: Assam University, Silchar

Department of Ecology & Counter Signature

Department of Ecology

Head of the Department (Assam)

Dept. of Ecology (Environmental Science)

Assam University

Assam University

Assam University, Silchar

Supervisor:

Topoti Das (Dr. Tapati Das) Assistant Professor,

Dept. of Ecology Environmental Science



This is to certified that the dissertation entitled "EXPLORING THE POSSIBILITIES OF BIOPROSPECTING DOMINANT AQUATIC MACROPHYTES WITH SPECIAL REFERENCE TO INVASIVE SPECIES: A CASE STUDY FROM CACHAR DISTRICT, ASSAM" submitted by RITU DUTTA bearing Roll: 041917 No.: 22010409 of Regn. No.: 01-170099396 of Year: 2017-2018 of 2017-2018 for the partial fulfilment of Master Degree in Ecology and Environmental Science, 2019, Assam University, Silchar, embodies the records of original investigators carried out by him under my supervision.

Date: 28/05/2019

Place: Assam University, Silchar

Counter Signature Department of Ecology & Environmental Science

Head of the Department SILCHAR (Assam)

Dept. of Fool Dept. of Ecology Environmental Science

Assam University, Silchar

Supervisor:

(Dr. Tapati Das)

Assistant Professor,

Dept. of Ecology Environmental

Science

ASSAM UNIVERSITY, SILCHAR

DEPARTMENT OF ECOLOGY AND ENVIRONMENTAL SCIENCE



Prof. Susmita Gupta Professor

CERTIFICATE

This is to certify that the dissertation entitled "Acute toxicity of cadmium and copper in Nychia sappho (Kirkaldy, 1901) (Heteroptera: Notonectidae): Effects on survival and swimming behavior", submitted by Shibam Chakraborty, Roll: 041917 No: 22010401, Reg no. 01-140060288 of 2014-2015, in partial fulfillment of the degree of Master of Science in the Department of Ecology and Environment Science, Assam University Silchar, 2019, embodies the record of original investigation carried out under my supervision and guidance.

Counter Signature

Head of the Department
Ecology and Environmental Science
Department University
Environmental Science
(ASSAM University)

Assam University SILCHAR (Assam)

Signature of the Supervisor

Place: Silcha Date:



ASSAM UNIVERSITY, SILCHAR

DEPARTMENT OF ECOLOGY AND ENVIRONMENTAL SCIENCE



CERTIFICATE

This is to certify that the dissertation entitled "A Study on noise pollution at different hospitals of Silchar, Cachar, Assam", submitted by Suraj Chanda, Roll: 041917 NO: 22010404, Reg no. 01-140060447 of 2014-2015, in partial fulfillment of the degree of Master of Science in the Department of Ecology and Environment Science, Assam University Silchar, 2019, embodies the record of original investigation carried out under my supervision and guidance.

Counter Signature
Head of the Department
Ecology and Fryis executive Gence
Department Science
Environmental Science

Assam University SILCHAR (Assam) INDIA Signature of the Supervisor

Place: Silchas Date: 9 0 5/19

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Certificate

TO WHOM IT MAY CONCERN

This is to certify that Miss. Bijoya Deb had carried out her project work entitled "study the land use and land cover types of Udharbond Subdivision, Cachar" as a partial fulfillment of the degree of Master of Ecology and Environmental Science (2017-2019) under Assam University. Silchar. The embodied dada are original and genuine and the work has been carried out satisfactorily under my supervision. She may be allowed to submit the project report for special paper examination.

I wish her all success on her endeavor.

(Prof. ParthakarChoudhury)

Head of the Department

Aparijita De)

supervisor

Department of Ecology and Environmental Science



This is to certify that the project entitled, "Water Stable Aggregate and Soil Organic Carbon Stock With Respect to Hydrological Niches in Sonbeel." submitted by Debasmita Purkayastha, Roll No.:041917,22010387,Regn No.: 01-140060348 of 2014-2015 for the partial fulfillment of the Degree of Masters of Science in the Department of Ecology and Environmental Science, Assam University, Silchar, 2019. It embodies records of original investigations carried out by her under my supervision.

The results embodied in my project have not been submitted to any other University / Institute.

Dr. Arun Jyoti Nath,

Supervisor

Prof. Parthankar Choudhury,

Head of the Department

Department of Ecology & Environmental Science.

Assam University ,Silchar



Department of Ecology & Environmental Science
E. P. Odum School of Environmental Sciences
ASSAM UNIVERSITY, SILCHAR
(A Central University constituted under Act XIII of 1989)
Silchar - 788011, Assam, India

CERTIFICATE

This is to certify that Ms. L. Gitanjali Devi has carried out her project work entitled "Performance of aggressive colonizer Combretum pilosum Roxb. ex G.Don in a tropical semi evergreen forest stand" as a partial fulfillment of special paper (Forest Ecology) for the degree of Mater of Science in department Ecology and Environmental Science under Assam University, Silchar. The embodied data are genuine and carried out the work satisfactorily. No part of the work was done by any University earlier. She may be allowed to submit the project report for special paper examination.

(DP BANNA DER)

Supervisor

Assistant Professor

Department of Ecology & Environmental

Science, Assam University, Silchar

(PROF. PARTHANKAR CHOUDHE

Head

Department of Ecology & Environmental

Science, Assam University, Silchar

Certificate

This is to certify that it is a bonafied piece of work done by Lalita Borah entitled "Ecological studies on *Melastoma malabathricum* in a tropical semi evergreen forest stand". Roll:041917 No.22010415, Registration no.- 01-170099402 of Year 2017-2018.Under my guidance for the partial fulfilment of Master of Science degree in Ecology and Environmental Science.

Signature of the Supervisor

Prof. Parthankar Choudhury

Prof. Parthankar Choudhury

Department of Ecology 8

Environmental Science

Environmental Science

SILC HAR (Assam)

NOIA

Assistant Professor

Resource for Bisscrenity and Conservation

Resource for Bisscrenity and Indian Sciences

Ep. Odum School Conservation

Assam University, Silchar

Assam University, Silchar

Certificate

This is to certify that the project entitled "Allometric scaling, biomass storage and ecosystem carbon stock in banana forest" submitted by Sabina Yasmin Laskar, Roll: 041917 No. 22010397 and Registration no. 04-140051879 of 2014-2015 for partial fulfillment of M.Sc. programme from Department of Ecology & Environmental Science, Assam University, Silchar. It embodies original investigations carried by her under my supervision.

The results embodied in my project have not been submitted to any other University/Institute.

Dr. Arun Jyoti Nath

Assistant Professor

Department of Ecology & Environmental Science

Assam University Silchar

Prof. Parthankar Choudhury

Head of the Department

Department of Ecology & Environmental Science



Department of Ecology and Environmental Science Assam University, Silchar- 788011

CERTIFICATE

To whom it may concern

This is to certify that Mr. Jintu Kumar Bania has been paused project work on "Studies on the ecology of soil microarthropods in forest and home garden of Cachar District, Assam" under the supervision and guidance of Prof. Dulal Chandra Ray for the partial fulfillment of Master of Science under Assam University, Silchar, as a part of special paper (EESCC- 404 D). He has carried out the work by himself. No part of the work was carried out by anyone earlier or submitted for any degree in any University/Institute. He may allow submitting the project work for examination.

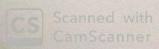
I wish him every success in life.

Forwarded by:

Head of the Department

Signature of Supervisor

Prof. D.C. Ray





Department of Ecology and Environmental Science Assam University, Silchar-788011

CIRTIFICATE

TO WHOM IT MAY CONCERN

Date: 24-05-2019

This is to certify that Mr. Kripabar Roy Sarkar has been perused project work on "Some Ecological Observations on Soil inhabiting Microarthropods in Banana (Musa sp. L) and Betel Nut (Areca catechu L) Plantations of Cachar District, Assam" Under the supervision and guidance of Prof. Dulal Chandra Ray for the partial fulfillment of Master of Science under Assam university, Silchar, as a part of special paper(EESCC-404). He has carried out the work by himself. All the generated data are genuine. No part of the work was carried out by anyone earlier or submitted for any degree in any University/Institute. He may be allowed to submit the project work report for examination.

I wish him every success in life.

Forwarded by

Head of the Department

Signature of the supervisor

(Prof. D. C. Ray)



Department of Ecology and Environmental Science Assam University Silchar- 788011

CERTIFICATE

To whom it may concern

Date: 24/05/19

This is to certify that Marzia Hasan Laskar had carried out the project work entitled "Some Ecological Observations and Management on Aphis Craccivora Koch on Flat Bean Lablab Purpureus (L.) Sweet in Cachar District of Assam", as a partial fulfillment of the special paper (Pest Management and Ecotoxicology) of M.Sc in Ecology and Environmental Science under Assam University, Silchar. The embodied data are genuine. She has carried out the work satisfactorily. No part of the work had done by anyone in any other University/Institute earlier. She may allowed to submit the project report for special paper examination.

Forwarded by:

Head of the Department

Signature of the Supervisor

Prof. D.C. Ray



Department of Ecology and Environmental Science Assam University Silchar- 788011

CERTIFICATE

To whom it may concern

This is to certify that Ms RUPASHRI CHOUDHURY has been persued project work on "STUDIES ON THE ECOLOGY AND MANAGEMENT OF Tetranychus cinnabarinus (Boisd.) ON BRINJAL CROP IN CACHAR DISTRICT OF ASSAM" under my supervision & guidance for the partial fulfillment of Master of Science in Ecology and Environmental Science under Assam University, Silchar as a part Special Paper. She has carried out the work by herself. No part of work was carried out byany one earlier or submitted for any degree in University/Institute. She may be allowed to submit the project work for the Examination.

I wish her every success in life

Forwarded by

Head of the Department

Signature of the Supervisor

(Prof. D. C. Ray)





Department of Ecology and Environmental Science Assam University Silchar- 788011

CERTIFICATE

TO WHOM IT MAY CONCERN

Date: 24-05-19

This is to certify that Miss Santona Chakma has been persued project work on "SOME ECOLOGICAL OBSERVATIONS AND MANAGEMENT ON Aphis craccivora Koch ON BOTTLE GOURD IN CACHAR DISTRICT, ASSAM" under my supervision and guidance for the partial fulfillment of Master of Science in Ecology and Environmental Science under Assam University, Silchar as a part of special paper. She has carried out the work by herself. No part of the work was carried out by anyone earlier or submitted for any degreein any University/ Institute. She may be allowed to submit the project work for the Examination.

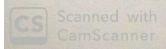
I wish her every success in life

Forwarded by

Head of the Department

Signature of the Supervisor

(Prof. D.C Ray)



This is to certify that the project entitled "ASSESSMENT OF ALGAL COMMUNITIES IN A VEGETABLE CROP FIELD (BRINJAL) AT LONGAI, KARIMGANJ DISTRICT OF ASSAM" submitted by Bipasha Saha for the fulfillment of 4th semester, degree of Master of Science under the department of Ecology and Environmental Science, Assam University, Silchar, is an authentic work carried out by her under my supervision and guidance.

To best knowledge, the matter included in this dissertation has not been submitted to any other university or institute for the award of any degree.

Prof. Jayashree Rout

Supervisor

Department of Ecology and Environmental Science

Professor Jayashree Rout Dept. of Ecology & Environ. Science Assam University, Silchar-788011 Opportment of Foology & Environment Science
Association (Assem)
SILCHAR (Assem)

This is to certify that the project entitled "Assessment on carbon sequestration efficiency of wetland algae and their ecological relevance" submitted by K.Bandana Devi for the fulfillment of 4th semester, degree of Master of Science under the department of Ecology and Environmental Science, Assam University, Silchar, embodies to record carried out by her under my supervision.

Signature of Supervisor

Professor Jayashree Rout Dept. of Ecology & Environ. Science Assam University, Silchar-788011 Head
Department of Ecology &
Environmental Science
Assem University
SILCHAR (Assem)
INDIA

This is to certify that the project entitled "Symbiotic algae in lichens- their isolation, growth pattern and biochemical characterization" submitted by Popee Hira for the fulfillment of 4th semester, degree of Master of Science under the department of Ecology and Environmental Science, Assam University, Silchar, embodies to record carried out by her under my supervision.

2+ |02 | 2 Signature of supervisor

Professor Jayashree Rout Dept. of Ecology & Environ. Science Assam University, Silchar-788011 Head
Department of Ecology &
Environmental Science
Assam University
SILCHAR (Assam)

INDIA

This is to certify that the project entitled "Study on biofuel efficiency of some bloom forming algae, their growth and biochemical characterization" submitted by Pushpita Nath for the fulfillment of 4th semester, degree of Master of Science under the Department of Ecology and Environmental Science, Assam University, Silchar, is the outcome of a bonafide research work. This work has not been submitted previously for any other degree of this or any other university.

27/05/2019

Prof. Jayashree Rout

Supervisor

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Department of Ecology and Environmental Science

Professor Jayashree Rout Dept. of Ecology & Environ. Science Assam University, Silchar-788011 Head
Department of Ecology &
Environmental Science
Assam University
SILCHAR (Assam)
INDIA

This is to certify that the project entitled "Algal communities in Wetlands of Brick kiln industry, diversity pattern and assessment of pollution" submitted by Queen Devi for the fulfillment of 4th semester, degree of Master of Science under the department of Ecology and Environmental Science, Assam University, Silchar, embodies to record carried out by her under my supervision

27 | 05 | 20 Signature of Supervisor

> Professor Jayashree Rout Dept of Ecology & Environ. Science Assam University, Silchar-788011

Department of Ecology & Environmental Science

Assam University SILCHAR (Assam) INDIA

This is to certify that the project entitled "Nutrient Enrichment Experiment with Nitrogen and Phosphorus in Chlorella ellipsoidea and Scenedesmus quadricauda and assessment of their growth potential" submitted by Tanushree Paul for the fulfillment of 4th semester, degree of Master of Science under the Department of Ecology and Environmental Science, Assam University, Silchar, is the outcome of a bonafide research work. This work has not been submitted previously for any other degree of this or any other university.

Jan 105 | 2019

Prof. Jayashree Rout

Supervisor

8

Department of Ecology and Environmental Science

Professor Jayashree Rout Dept. of Ecology & Environ. Science Assam University, Silchar-788011 Head
Department of Ecology &
Environmental Science
Assam University
SILCHAR (Assam)
INDIA

This is to certify that the dissertation entitled "STUDY OF ACTIVITTY BUDGETING OF ASIAN OPENBILL STORK ON ROSEKANDY TEA ESTATE AND DARGAKONA AREA" submitted by Daisy Dutta for partial fulfillment of 4th semester Master Degree in Ecology and Environmental science of Assam(central) university ,silchar ,embodies the record or original investigations carried out by her under my supervision .

The result embodied in the desertification have not been submitted to any other University/Institutions.

Porf Mithra Dey

(Prof . Parthankar Choudhury

Place: Silchar

Date

Supervisor



This is to certify that Mr. Nihal Roy of M.Sc 4th semester Ecology and Environmental Science bearing M.Sc final examination Roll. 041917 No. 22010392 and Registration No. 01-140060264 carried out project work titled "A STUDY ON MORPHOMETRY AND FEEDING HABIT OF Microhyla berdmorei TADPOLES FROM ROSEKANDY TEA ESTATE, ASSAM" for completion of M.Sc in Ecology and Environment Science, Assam University, Silchar, Assam. During session 2019 under my supervision and guidance.

Date: 27-5-2019

Place: Silchar

97.5.2019 Mithra Dey

Professor

Ecology and Environmental Science

Assam University, Silchar

Counter signature

Head of the department



Department of Ecology and Environmental Science Assam University Silchar- 788011

CERTIFICATE

To whom it may concern

Date: 27/05/2019

This is to certify that Rupankar Dev Chutia had carried out the project work entitled "Diversity of Nocturnal Mammals in Assam University Campus", as a partial fulfillment of the special paper (Wildlife Conservation Ecology) of M.Sc. in Ecology and Environmental Science under Assam University, Silchar. The embodied data are genuine. He has carried out the work satisfactorily. He may allowed to submit the project report for special paper examination.

Signature of the Supervisor

Prof. Parthankar Choudhury

This is certify that the dissertation "A study on Avian Diversity in Dargakona Chatla Complex and behavioural study of Black Drongo" is an authentic record of the project submitted by Sumanjita Rabha under my supervision and guidance in partial fulfilment of the requirements for the 4th semester Master of Degree in Ecology & Environmental Science, Assam University Silchar.

The results represented in the dissertation have not been submitted to any other University/Institutions.

Place: Silchar

1

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Date: 24-05-2019

Prof.Mithra Dey

Supervisor

Prof.(Dr) Ajit Kumar Das M.Sc, M.Phil., Ph.D., F.E.S. Department Of Ecology & Environmental Sciences E.P. Odum School of Environmental Sciences Assam University, Silchar-780011 Assam, India

CERTIFICATE

This is to certify that the thesis entitled, "Study of Ethnobotanical plants used by Tea Garden Community of Cachar District, Assam", submitted by ADWITIYA NATH, Registration No. 01-130037117 of Department of Ecology and Environmental Sciences, Assam University, Silchar embodies the record of the original investigation carried out by her under my supervision.

This work has not been submitted previously for any other degree of this any other University / Institution.

Counter Signature

Dept. of Ecology & Environmental Sciences

Date: 27. 5-19.

Place: Dargakona, Silchat

Assam University, Silchar

Supervisor

Dept. of Ecology and Environmental Sciences

This is to certify that the dissertation entitled "Study of Ethnobotanical plants used by the Sonowal Kachari community of Dhemaji district, Assam" submitted by Bharasha Borah, bearing Roll- 040917 No.- 22010406 in partial fulfillment of Master Degree in Ecology and Science, 2019, Assam University Silchar, embodies the records of original investigation carried out by her under my supervision.

This work has not been submitted previously for any other degree of this or any other University/Institution.

Signature of HOD

Prof. P. Choudhury

Department of Ecology and

Envrionmental Science

Assam University, Silchar

Signature of the Supervisor

Prof. Ajit Kr. Das

Department of Ecology and

Environmental Scince

Assam University, Silchar

Date:

DEPARTMENT OF ECOLOGY & ENVIRONMENTAL SCIENCE

ASSAM UNIVERSITY SILCHAR, MAY, 2019

Prof (Dr.) Ajit Kumar Das
Msc., M. Phil, Ph.D, F.E.S
Drpartment of Ecology And Environmental Science
E.P. Odum School of Environmental Sciences
Assam University, Silchar- 788011

CERTIFICATE

This is to certified that the dissertation entitled "Study of medicinal plants used by the Meitei community of Cachar district, Assam" submitted by Piyali Bhattacharjee bearing Roll- 040917 no- 220101393 in partial fulfilment of Master Degree in Ecology & environmental Sciences, 2019, Assam University Silchar, embodies the record of original investigation carried out by her under my supervision

This work has not been previously submitted for any other degree of this or any other University/ Institution.

II.

Department of Ecology and Environmental Science

Assam University, Silchar

Prof. (Ajit Kumar Das)

Supervisor

Department of Ecology and Environmental Science

This is to certify that the dissertation entitled "Study of ethnobotanical plants used by the Manipuri community of Hailakandi district, Assam" submitted by Shahida Aktar Laskar, bearing Roll- 031817 No.-22010399 in partial fulfillment of Master Degree in Ecology and Environmental Science, 2019, Assam University Silchar, embodies the records of original investigation carried out by her under my supervision.

The work has not been submitted previously to any other degree of this or any other University/Institute.

Counter signature

Deptt. Of Ecology and Environmental Science

Place:

(Prof. Ajit kr. Das) Supervisor

Supervisor Deptt. Of Ecology and

Environmental Science Assam University, Silchar

This is to certify that the dissertation entitled "Study of ethnobotanical plants used by the Dimasa tribe of Cachar district, Assam" submitted by Sudipta Biswas, bearing Roll- 031817 No.- 22010402 in partial fulfillment of Master Degree in Ecology and Environmental Science, 2019, Assam University Silchar, embodies the records of original investigation carried out by her under my supervision.

This work has not been submitted previously for any other degree of this or any other University/Institute.

Counter signature

Dept. of Ecology and Environmental Science

Assam University, Silchar

Date: 28-05-19 Place: Dagaucna, Silcher

Supervisor

Dept. of Ecology and Environmental Science

This is to certify that the dissertation entitled "Study of ethnobotanical plants used by the Mising community of Dhemaji district, Assam" submitted by Arun Doley, bearing Roll-041917 No.- 22010411 in partial fulfilment of Master Degree in Ecology and Environmental Science, 2019, Assam University Silchar, embodies the records of original investigation carried out by him under my supervision.

This work has not been submitted previously for any other degree of this or any other University/

Counter signature

Head Dept. of Ecology and Environmental Science

Date:

Ecology and Environmental Science



Assam University

Department of Ecology and Environmental Science

Silchar-788011

To whom it may concern

Date: - 14-05-2018

This is to certify that the project work entitled "Some ecological observations and management on red spider mites (Neitner) on tea (Camelia sinensis) in Cachar district Assam" was carried out by Ananya Bhattacharjee under the guidance of me. The generated data belongs to the project work are genuine and original. No part of the work embodied in the project was carried out by anybody in any University or Institute. The project report may be allowed to submit under the Department of Ecology and Environmental Science, Assam University, Silchar-788011.

I wish him every success in endeavour life.

Prof. ParthankarChoudhury
Head of the Department
Department of Ecology and
Environmental Science
Assam University
Silchar

Department of Ecology & Environmental Science Assam University SILCHAR (Assam)

INDIA

Prof. Dulal Ch. Ray Project Supervisor Dean, EPOSEESc

Prof. D.C. Ray
Dean
E.F. Odrin School of
Environmental Sciences
Assault freiwersity
Sitchar-786041; Assault

Scanned by CamScanner



Post – graduate in Ecology and Environmental Science Department of Ecology and Environmental Science

Assam University Silchar-788011

Certificate

This is to certify that the Dissertation Project entitled "A study on food comparison and commensalism of Rhesus Macaque in Inner – Line Reserve Forest and Irongmara" is a bonafide work carried out by Titam Dey for the partial fulfilment of Degree of Master of Ecology and Environmental Science for the session 2015-2017 from Assam University, Silchar under our supervision.

Counter signature of the next of Ecology & Head Ecology & Head Ecology & Head Ecology & Head of the Department of Ecology & Head of the Department of Ecology & Head Ecolog

counter signature of the

(Dr.Parthankar Chaudh

O + Assm

Department of Ecology and Environmental Science



Department of Ecology and Environmental Science Assam University Silchar - 788011

To whom it may concern

Date: 17-05-2017

This is to certify that Shyamalima Paul was carried out the project work entitled "Studies on the Ecology and Management of <u>Aphis craccivora</u> Koch.(Homoptera: Aphididae) on Bean in Cachar District of Assam", as a partial fulfilment of special paper (Pest Management and Ecotoxicology) for M.Sc. in Ecology and Environmental Science under Assam University, Silchar. The embodied data are genuine. She has carried out the work satisfactorily. No part of the work was done by anyone in other University earlier. She may be allowed to submit the project report for special paper examination.

Forwarded by

Head of the Department Prof. Parthankar Choudhury

Head

Department of Ecology &

Environmental Science

Environmental

(Prof. D.C Ray)

Dr. Suja P. Devipriya

Assistant Professor,

Department of Ecology & Environmental Sciences,

Pondicherry University,

R.V. Nagar, Kalapet,

Puducherry - 605014, India.



CERTIFICATE

This is to certify that the dissertation report entitled "Photocatalytic decolorization of synthetic dye solutions using N-doped TiO2 prepared via sol gel synthesis" is an authentic record of work carried out by Ms. Oli Borah under my supervision at the Department of Ecology and Environmental Sciences, Pondicherry University in partial fulfillment of the requirements for the degree of Master of Science during the academic year 2016-2018. The matter embodied in this thesis is original and has not been submitted for the award of any other degree.

Place: Puducherry

Date: 30 4) 2018

Suja P. D-17-

(Dr. Suja P. Devipriya)

Project Supervisor RIYA

ASSISTANT PROFESSOR

DEPLOF ECOLOGY & ENVIRONMENTAL SCHNESS
PONDICHERRY UNIVERSITY

R.V. NACAR, KALAPET

PONDICHERRY - 605 014

Countersigned by

Head of the Department,

Department of Ecology and Environmental Sciences,

Dr. G. POYYAMOLI
Professor & Head,
Professor & Head,
Department Of Ecology &
Environmental Sciences,
Pondicherry University,
Puducherry - 605 014.

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ASSAM UNIVERSITY, SILCHAR

(A Central University Constituted under Act XIII of 1989)



CERTIFICATE

Dated: 11th May, 2016

Prof. Ashesh Kr. Das

Department of Ecology and Envtl.Sc

It is certified that the project work entitled "Impact of land use change on soil organic carbon stock" submitted by Bandana Kurmi, for the partial fulfillment of the Degree of Masters of Science in the Department of Ecology and Environmental Science, Assam University , Silchar, embodies the record of original work carried by her under my supervision.

The work/result has not been submitted for any degree of any other University.

Dr. Arun Jyoti Nath

Department of Ecology and Envtl. Sc.

Assam University, Silchar

Assam University, Silchar

Proj. Jayashree Rout 11 05/2016 Head, Department Head, Department of Ecology and Environmental science Assam University, Stichar

This is to certify that the work contained in the dissertation entitled "Possible Impact of Environmental Stress Caused by the Cement Factory at Mawmluh, Cherrapunjee (Meghalaya) the Honeybee on Apiscerenaindica, an Important Bio-Resource of the Region.", submitted by JOSTON PAUL NONGKYNRIH carried out as partial fulfilment for the award of the M.Sc. in Ecology and Environmental Science, Sikkim Manipal University, is a record of bonafide research works carried out by him under my direct supervision and guidance. The contents of the dissertation have not been submitted for the award of any other degree or diploma in this or any other university.

Place: Shellow . Date: 21th Jan. 2005

Supervisor:

isor:
Dr. SUDIP DEY
Scientific Officer
Electron Microscope Laboratory
Sophisticated Analytical
Instrumentation Facility
North Eastern Hill University
Bijni Complex, Laitumkhrah
Shillong 793003, Meghalaya

Certificate

This is to certify that it is a bonafied piece of work done by Bishal Sonar entitled "Ecological studies on Parthenium hysterophorus L. in a tropical semi evergreen forest stand". Roll:021918 No.4101400001, Registration no.- 01-150077298 of Year 2015-2016. Under my guidance for the partial fulfilment of Post Graduate Diploma in Biodiversity Conservation under the Department of Ecology and Environmental Science.

Signature of the Supervisor

Prof. Parthaghar Choudhury S Aseam University

Dr. Panna Deb

Assistant Professor

Head of the Department INDA

Centre for Biodiversity and Natural Resources Conservation Department of Ecology and Environmental Science

This is to certify that the Dissertation project entitled "AVIAN DIVERSITY ON Bauhinia purpurea L. IN ASSAM UNIVERSITY, SILCHAR CAMPUS" is a bona fide work carried out by Parmita Paul of 2nd Semester bearing Roll: 021918 No.: 4101400002 in partial fulfilment for the requirement of Post Graduate Diploma in Biodiversity Conservation under my supervision and guidance during the session 2018-19. The assistance and help rendered during the course of investigation and sources of literature have been acknowledged.

Director

Departmental Science

Departmental Science

Assam University

Assam

Assistant Professor

Post Graduate Diploma in Biodiversity Conservation

Centre for Biodiversity and Natural resource conservation