



# Holy Cross College (Autonomous) Nagercoil – 629 004

Affiliated to Manonmaniam Sundaranar University, Tirunelveli  
Nationally Accredited with A+ Grade (CGPA 3.35) by NAAC IV Cycle  
An ISO 9001:2015 Certified Institution

SSR  
2019-2020  
to  
2023-2024

## Project Report

### DEPARTMENT OF MATHEMATICS

#### A STUDY ON THE AVAILABILITY OF WATER RESOURCES IN KAVALKINARU

*Project report on Environmental studies submitted to Holy Cross College  
(Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar  
University in Partial fulfillment of the requirements for the award of the  
Degree of Bachelor of Science in Mathematics*

#### Submitted by

K.ABISHA	2021AUM004
M.BAMA	2021AUM014
C.DEVA THIBIKSHA	2021AUM018
S.ELIZABETH	2021AUM022
A .IGNATIUS CATHRINE SHERLY	2021AUM024

#### Under the guidance of

Dr . K .Jeya Daisy , M.Sc., B .Ed., M.Phil .,Ph.D.



#### DEPARTMENT OF MATHEMATICS (AIDED) HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL

Accredited with A+Grade(CGPA 3.35 - IV Cycle) by NAAC  
Affiliated to Manonmaniam Sundaranar University, Tirunelveli

October 2023



**A STUDY ON THE AVAILABILITY OF WATER RESOURCES IN  
KAVALKINARU**

*Project report on Environmental studies submitted to Holy Cross College  
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**DEPARTMENT OF MATHEMATICS (AIDED)**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A<sup>+</sup>Grade(CGPA 3.35 - IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**October 2023**

Dr . K .Jeya Daisy ,M.Sc., B .Ed., M.Phil., Ph.D,

Assistant Professor,

Department of Mathematics (Aided),

Holy Cross College (Autonomous),

Nagercoil - 629 004.

### CERTIFICATE

This is to certify that the project work on Environmental Studies titled  
“A STUDY ON THE AVAILABILITY OF WATER RESOURCES IN  
KAVALKINARU”

Submitted by,

K.ABISHA	2021AUM004
M.BAMA	2021AUM014
C.DEVA THIBIKSHA	2021AUM018
S.ELIZABETH	2021AUM022
A .IGNATIUS CATHRINE SHERLY	2021AUM024

of III B.Sc. Mathematics (Aided), Holy Cross College (Autonomous) in  
partial fulfillment of the requirements for the award of the Degree of Bachelor  
of Science in Mathematics is a bonafide record of the work done by them  
under my supervision and guidance.

Place: Nagercoil

Date: 25-10-2023

  
Head of the Department

Head  
Department of Mathematics  
Holy Cross College  
NAGERCOIL

  
Supervisor

Dr. K. JEYA DAISY  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "A STUDY ON THE AVAILABILTY OF WATER RESOURCES IN KAVALKINARU" submitted by us for the degree of Bachelor of Science in Mathematics done under the guidance of Dr . K .Jeya Daisy , M.Sc., B .Ed., M.Phil.,Ph.D, Assistant Professor, Department of Mathematics (Aided), Holy Cross College(Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associateship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 25-10-2023

*K. Abisha*  
K.ABISHA

*M. Bama*  
M.BAMA

*C- Thibiksha*

C.DEVA THIBIKSHA

*S. Elizabeth*

S.ELIZABETH

*A. Ignatius Cathrine Sherly.*

A .IGNATIUS CATHRINE SHERLY

**A STUDY ON THE POSSIBILITY OF ENTREPRENEURSHIP IN  
MORINGA AND COCONUT PRODUCTS IN NAGERCOIL LOCALITY**

*Project report on Environmental Studies submitted to Holy Cross College (Autonomous),  
Nagercoil affiliated to Manonmaniam Sundaranar University in partial fulfillment of the  
requirements for the award of the Degree of Bachelor of Science in Mathematics*

**Submitted by,**

AKSHARA. D. DAVID

Reg No: 2021AUM006

C.K. AMIZHDINI ROSE

Reg No: 2021AUM009

P. ASMIN SERLIN

Reg No: 2021AUM013

DIVYA. G. ROSEWIN

Reg No: 2021AUM021

R. SUSHMEETHA

Reg No: 2021AUM046

**Under the guidance of**

Dr. K. Jeya Daisy, M.Sc., B.Ed., M. Phil., PhD.



**DEPARTMENT OF MATHEMATICS**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A<sup>+</sup> Grade (CGPA 3.35 – IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**October 2023**

Dr. K. Jeya Daisy, M.Sc., B.Ed., M.Phil., Ph.D,  
Assistant Professor,  
Department of Mathematics,  
Holy Cross College (Autonomous),  
Nagercoil – 629 004.

**CERTIFICATE**

This is to certify that the project work on Environmental Studies titled “A STUDY ON THE POSSIBILITY OF ENTREPRENEURSHIP IN MORINGA AND COCONUT PRODUCTS IN NAGERCOIL LOCALITY”.

Submitted by,

AKSHARA. D. DAVID

Reg No: 2021AUM006

C.K. AMIZHDINI ROSE

Reg No: 2021AUM009

P. ASMIN SERLIN

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DIVYA. G. ROSEWIN

Reg No: 2021AUM021

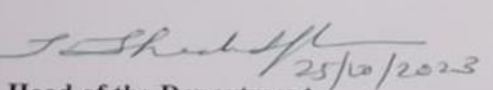
R. SUSHMEETHA

Reg No: 2021AUM032

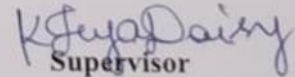
of III B.Sc. Mathematics, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Science in Mathematics is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date: 25-10-2023

  
Head of the Department

**Head**  
**Department of Mathematics**  
**Holy Cross College**  
**NAGERCOIL**

  
Supervisor

**Dr. K. JEYA Daisy**  
**Assistant Professor**  
**Department of Mathematics**  
**Holy Cross College (Autonomous)**  
**Nagercoil - 629 004**

## ACKNOWLEDGEMENT

First and foremost, we thank the Almighty God for giving us the strength, knowledge, ability and opportunity to undertake this project and to preserve and complete it satisfactorily. Without his blessing, this project would not have been possible.

Next, we thank our college Secretary Dr. Sr. Mary Gilda, Principal Dr. Sr. S. Sahayaselvi, Vice Principals Dr. Sr. P. Leema Rose and Dr. P. Sathya, Controller of Examinations Dr. J. Vinoliya Josephine Mary and Assistant Controller of Examinations Dr. S. Regi and our Librarian Dr. V. Jeya Kala for allowing us to utilize the facilities of the college for the project work.

Our special thanks to our Head of the Department Dr. T. Sheeba Helen for the support and guidance throughout our project.


Our sincere thanks to our supervisor Dr. K. Jeya Daisy, M.Sc., B.Ed., M.Phil., Ph.D., Assistant Professor, Department of Mathematics, Holy Cross College (Autonomous), Nagercoil for the valuable suggestion, guidance and help rendered by her during the course of our work.


We are thankful to the other faculty members of the Department of Mathematics for their engagement and help.

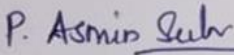
We owe our thanks to our dear parents and sisters for their timely help. Also, we thank our friends and well-wishers who helped during the course of this project work.

Place: Nagercoil

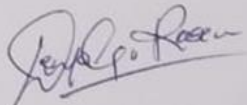
Date: 25-10-2023

  
AKSHARA. D. DAVID

  
C.K. AMIZHDINI ROSE

  
P. ASMIN SERLIN

P. ASMIN SERLIN

  
DIVYA. G. ROSEWIN

  
R. SUSHMEETHA

**A STUDY ON DISASTER MANAGEMENT IN COLACHEL**

*Project report on Environmental Studies submitted to Holy Cross College  
(Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar  
University in partial fulfillment of the requirements for the award of the  
Degree of Bachelor of Science in Mathematics*

**Submitted by**

T. DISHONY	2021AUM020
S. MARY ASHANY	2021AUM032
M. METHA JAPHRO	2021AUM033
SHELAT V MOFFI	2021AUM041
S. STARLIN MINI	2021AUM042

**Under the guidance of**

Dr . K .Jeya Daisy, M.Sc., B .Ed, M.Phil .,Ph.D.



**DEPARTMENT OF MATHEMATICS  
HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A<sup>+</sup>Grade(CGPA 3.35 - IV Cycle) by NAAC  
Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**October 2023**





**A STUDY ON DISASTER MANAGEMENT IN COLACHEL**

*Project report on Environmental Studies submitted to Holy Cross College  
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**Submitted by**

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S. STARLIN MINI	2021AUM042

**Under the guidance of**

Dr . K .Jeya Daisy, M.Sc., B .Ed, M.Phil .,Ph.D.



**DEPARTMENT OF MATHEMATICS**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

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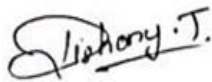
**October 2023**

## DECLARATION

We hereby declare that the project work on Environmental Studies titled “A STUDY ON DISASTER MANAGEMENT IN COLACHEL” submitted by us for the degree of Bachelor of Science in Mathematics done under the guidance of Dr. K. Jeya Daisy , M.Sc., B .Ed., M.Phil., PhD, Assistant Professor, Department of Mathematics, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 25/10/23



T. DISHONY



S. MARY ASHANY



M. METHA JAPHRO



SHELAT V MOFFI



S. STARLIN MINI



A STUDY ON MARINE POLLUTION IN RAJAKAMANGALAM THURAI

*Project report on Environmental Studies submitted to Holy Cross College  
(Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University  
in Partial fulfillment of the requirements for the award of the Degree of  
Bachelor of Science in Mathematics*

**Submitted by**

K.R. AGEENA	2021AUM004
G. ALOYSIUS SHERMI	2021AUM007
B. INFANT AKSHAYA	2021AUM025
S. QURY FIONY	2021AUM034
N. SUBITHRA	2021AUM044

**Under the guidance of**

Dr. K. Jeya Daisy, M.Sc., B.Ed, M.Phil., Ph.D.



**DEPARTMENT OF MATHEMATICS**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

October 2023

Dr. K. Jeya Daisy, M.Sc., B.Ed., M.Phil., Ph.D.

Assistant Professor,

Department of Mathematics,

Holy Cross College (Autonomous),

Nagercoil - 629004

**CERTIFICATE**

This is to certify that the project work on Environmental Studies titled  
"A STUDY ON MARINE POLLUTION IN RAJAKAMANGALAM THURAI"


Submitted by,

K.R. AGEENA	2021AUM004
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B. INFANT AKSHAYA	2021AUM025
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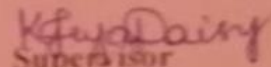
of III B.Sc. Mathematics, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Science in Mathematics is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date: 25-10-2023

  
25/10/2023  
Head of the Department

**Head**  
Department of Mathematics  
Holy Cross College  
NAGERCOIL

  
Supervisor

**Dr. K. JEYA DAISY**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

DECLARATION

We hereby declare that the project work on Environmental Studies titled "A STUDY ON MARINE POLLUTION IN RAJAKAMANGALAM THURAI" submitted by us for the degree of Bachelor of Science in Mathematics done under the guidance of Dr. K. J. Aloysius, M.Sc., B.Ed., M.Phil., PhD, Assistant Professor, Department of Mathematics, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution

Place: Nagercoil

Date: 25-10-2023

*Ageena*

K.R. AGEENA

*G. Aloysius Shermi*

G.ALOYSIUS SHERMI

*B. Infant Akshaya*

B.INFANT AKSHAYA

*Qury Fiony S*

S.QURY FIONY

*N. Subithra*

N.SUBITHRA

**A STUDY ON TYPES OF POLLUTION IN KANYAKUMARI**  
*Project report on Environmental Studies submitted to Holy Cross College  
(Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar  
University in partial fulfillment of the requirements for the award of the  
Degree of Bachelor of Science in Mathematics*

**Submitted by**

I ASHLIN JEBA	2021AUM012
T JENISHA	2021AUM029
J SAHAYA JEFIRIN MAGLIN	2021AUM039
V SEKA BUHARI	2021AUM040
S SAHAYA MARIA SERLIN	2021AUM400

**Under the guidance of**

Dr . K .Jeya Daisy, M.Sc., B .Ed, M.Phil .,Ph.D.



**DEPARTMENT OF MATHEMATICS**  
**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**  
Accredited with A<sup>+</sup> Grade(CGPA 3.35 - IV Cycle) by NAAC  
Affiliated to Manonmaniam Sundaranar University, Tirunelveli  
**October 2023**

Dr. K .Jeya Daisy, M.Sc., B.Ed., M.Phil., PhD,  
Assistant Professor,  
Department of Mathematics,  
Holy Cross College (Autonomous),  
Nagercoil - 629 004.

### CERTIFICATE

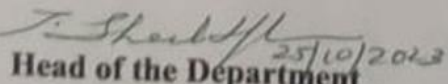
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V SEKA BUHARI	2021AUM040
S SAHAYA MARIA SERLIN	2021AUM400

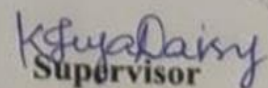
of III B.Sc. Mathematics, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Science in Mathematics is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date: 25-10-2023

  
Head of the Department

**Head**  
Department of Mathematics  
Holy Cross College  
NAGERCOIL

  
Supervisor

**Dr. K. JEYA DAISY**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "A STUDY ON TYPES OF POLLUTION IN KANYAKUMARI" submitted by us for the degree of Bachelor of Science in Mathematics done under the guidance of Dr. K. Jeya Daisy, M.Sc., B.Ed., M.Phil., PhD, Assistant Professor, Department of Mathematics, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 25 - 10 - 2023

*I. Ashlin Jebo*

I ASHLIN JEBA

*J Sahaya Jefrin Maglin*

J SAHAYA JEFRIN MAGLIN

*T Jenisha*

T JENISHA

*S. Sahaya Maria Serlin*

S SAHAYA MARIA SERLIN

*V. Seka Buhari*

V SEKA BUHARI



**A Study On Environmental Impacts Of Rubber Plantation In  
Cherukole**

*Project report on Environmental Studies submitted to Holy Cross College  
Autonomou(s), Nagercoil affiliated to Manonmaniam Sundaranar University in  
Partial fulfillment of the requirements for the award of the Degree of Bachelor of  
Science in Mathematics*

**Submitted by**

R A ANCHITA	2021AUM010
E.J CATHRIN BENZ	2021AUM017
D V DHANISHA	2021AUM019
J JENCI ROY	2021AUM027
P ANISHA	2021AUM399

**Under the guidance of**

Dr. K. Jeya Daisy, M.Sc., B .Ed., M.Phil., Ph.D.



**DEPARTMENT OF MATHEMATICS (AIDED)  
HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A<sup>+</sup>Grade(CGPA 3.35 - IV Cycle) by NAAC  
Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**October 2023**

Dr. K. Jeya Daisy, M.Sc., B.Ed., M.Phil., Ph.D.  
Assistant Professor,  
Department of Mathematics (Aided),  
Holy Cross College (Autonomous),  
Nagercoil - 629 004.

**CERTIFICATE**

This is to certify that the project work on Environmental Studies titled  
"A Study On Environmental Impacts Of Rubber Plantation In Cherukole."

Submitted by,

R A ANCHITA	2021AUM010
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J JENCI ROY	2021AUM027
P ANISHA	2021AUM399

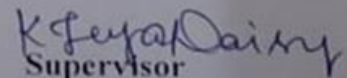
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Place: Nagercoil

Date: 25-10-23

  
Head of the Department

**Head**  
Department of Mathematics  
Holy Cross College  
NAGERCOIL

  
Supervisor

**Dr. K. JEYA DAISY**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "A STUDY ON ENVIRONMENTAL IMPACTS OF RUBBER PLANTATION IN CHERUKOLE" submitted by us for the degree of Bachelor of Science in Mathematics done under the guidance of Dr. K. Jeya Daisy, M.Sc., B.Ed., M.Phil., Ph.D, Department of Mathematics (Aided), Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 25/10/2023

*Anchita*

R A ANCHITA

*Cathrin Benz*

EJ CATHRIN BENZ

*D.V. Dhanisha*

D V DHANISHA

*J. Jenci Roy*

J JENCI ROY

*Anisha*

P ANISHA

**DEPARTMENT OF MATHEMATICS (S.F)**

**A STUDY ON PLASTIC WASTE MANAGEMENT**

Project report on Environmental Studies submitted to Holy Cross College (Autonomous),  
Nagercoil in partial fulfilment of the requirements for the award of degree of

**BACHELOR OF SCIENCE IN MATHEMATICS**

**By**

**Abisha. T**

**Reg No 2021SUM004**

**Astina Juliet. A**

**Reg No 2021SUM007**

**Femisha. S**

**Reg No 2021SUM009**

**Rexlin Charles. C. R**

**Reg No 2021SUM016**

Under the guidance of

**MRS. C. SHERISHA, M.Sc., M.Phil., B.Ed.**

**Assistant Professor in department of Computer Science (Self-Financed)**



**DEPARTMENT OF MATHEMATICS (SELF FINANCED)**

**HOLY CROSS COLLEGE (AUTONOMOUS)**

**RE-ACCREDITED WITH A+ GRADE (CGPA 3.35)**

**(AFFILIATED TO MANONMANIAM SUNDARANAR UNIVERSITY)**

**NAGERCOIL-629 004 OCTOBER-2023**

CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON PLASTIC WASTE MANAGEMENT" submitted by ABISHA. T (Reg.No.2021SUM004), ASTINA JULIET. A (Reg.No.2021SUM007), FEMISHA.S (Reg.No.2021SUM009), REXLIN CHARLES. C.R (Reg.No.2021SUM014) of III B.Sc. Mathematics (Self-Financed), Holy Cross College (Autonomous), Nagercoil, in partial fulfilment of the requirement for the award to the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date:



Head of the Department

Department of mathematics (S.F)

Department of Mathematics (S.F.)

Holy Cross College (Autonomous)

Nagercoil - 629 004.



MRS. C. SHERISHA, M.Sc., M.Phil. B.Ed.

Supervisor

## DECLARATION

We hereby declare that this project work on Environmental Studies titled "A STUDY ON PLASTIC POLLUTION MANAGEMENT" submitted by us for the degree of **BACHELOR OF SCIENCE IN MATHAMATICS** is done to the under the guidance of **MRS. C. SHERISHA, M.Sc., M.Phil., B.Ed.**, Department of computer Science, Holy Cross College (Autonomous), Nagercoil was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate ship or fellowship of any other University or Institution.

Place: Nagercoil

Date:

*T. Abisha*  
**ABISHA. T**

*A. Astina Juliet*

**ASTINA JULIET. A**

*Femisha . S*

**FEMISHA. S**

*Rexlin Charles C.R*  
**REXLIN CHARLES. C. R**

**ENVIRONMENTAL IMPACT OF E-WASTES**

Project report on Environmental Studies submitted to Holy Cross College (Autonomous),  
Nagercoil in partial fulfilment of the requirements for the award of degree of

**BACHELOR OF SCIENCE IN MATHEMATICS**

By

**FAHEEMAH. K**

**Reg. No. 2021SUM008**

**HEIDA. J**

**Reg. No. 2021SUM010**

**SANJANA LAKSHMI. P. M**

**Reg. No. 2021SUM018**

**VARSHA. V**

**Reg. No. 2021SUM023**

Under the guidance of

**MRS. C. SHERISHA, M.Sc., M.Phil., B.Ed.**

**Assistant Professor in department of Computer Science (Self Financed)**



**DEPARTMENT OF MATHEMATICS (SELF FINANCED)**

**HOLY CROSS COLLEGE (AUTONOMOUS)**

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**(AFFILIATED TO MANONMANIAM SUNDARANAR UNIVERSITY)**

**NAGERCOIL-629 004**

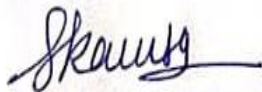
**OCTOBER-2023**

**CERTIFICATE**

This is to certify that dissertation entitled “ **MARINE ENVIRONMENTAL POLLUTION** ” submitted by the candidates **Abisha. S. A (RegNo:2021SUM003)**, **Anisha Shani. E (RegNo:2021SUM005)**, **Swishna. R. L (RegNo:2021SUM022)**, **Athira. I. S. (RegNo:2021SUM336)** of **III B.Sc. Mathematics (Self-Financed)**, **Holy Cross College (Autonomous), Nagercoil**, in partial fulfillment of the requirement for the award to the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date: 26/10/2023



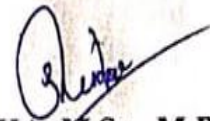
**Head of the Department**

**Department of Mathematics (S.F)**

**Department of Mathematics (S.F.)**

**Holy Cross College (Autonomous)**

**Nagercoil - 629 004.**



**MRS. C. SHERISHA, M.Sc., M.Phil., B.Ed.**

**Supervisor**






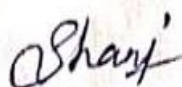
## DECLARATION

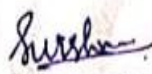
We hereby declare that this Project work on Environmental Studies titled “ **MARINE ENVIRONMENTAL POLLUTION** ” submitted by us for the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is done under the guidance of **Mrs. C. Sherisha, M.Sc., M.Phil., B.Ed.**, Assistant Professor, Department of Computer Science (Self Financed), Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place : Nagercoil

Date : 26/10/2023

  
Abisha. S. A

  
Anisha Shani. E

  
Swishna. R.L

  
Athira.I.S

## **MARINE ENVIRONMENTAL POLLUTION**

Project report on Environmental Studies submitted to Holy Cross College (Autonomous),  
Nagercoil in partial fulfillment of the requirements for the award of the

### **BACHELOR OF SCIENCE IN MATHEMATICS**

Submitted By

**Abisha. S.A (2021SUM003)**

**Anisha Shani. E (2021SUM005)**

**Swishna. R. L (2021SUM022)**

**Athira. I.S (2021SUM336)**

Under the guidance of

**Mrs. C. Sherisha, M.Sc., M.Phil., B.Ed.**

**Assistant Professor in department of Computer Science (Self Financed)**



**DEPARTMENT OF MATHEMATICS (SELF FINANCED)**

**HOLY CROSS COLLEGE (AUTONOMOUS)**

**RE-ACCREDITED WITH A+ GRADE (CGPA3.35)**

**(AFFILIATED TO MANONMANIAN SUNDRANAR UNIVERSITY)**

**NAGERCOIL-629 004**

**OCTOBER-2023**

# **SURVEY ON TREES AT HOLY CROSS COLLEGE**

A dissertation Submitted To

**HOLY CROSS COLLEGE (AUTONOMOUS)**

In Partial Fulfillment of the

**BACHELOR OF MATHEMATICS (SF)**

Submitted by

Sangeetha.M	2021SUM404
Brindha.M	2021SUM337
Pon Abisha.M	2021SUM015
Suja.P	2021SUM021

Under the guidance of

**Mrs.C.SHERISHA , Msc,MPhil,B.ED**



**DEPARTMENT OF MATHEMATICS (SF)**

**HOLY CROSS COLLEGE (AUTONOMOUS)**

**NAGERCOIL**

**OCTOBER- 2023**

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "SURVEY ON TREES AT HOLY CROSS COLLEGE" submitted by us for the degree of Bachelor of Science done under the guidance of, Mrs.C.SHERISHA,Msc,MPhil,B.ED Department of Mathematics( SF), Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

signature of the students

Sangeetha.M  
Sangeetha.M

Brindha.M  
Brindha.M

M. Pon Abisha .  
Pon Abisha.M

P. Suja.  
Suja.P

**HOLY CROSS COLLEGE (AUTONOMOUS)**



**CERTIFICATE**

This is to certify that the project entitled "SURVEY ON TREES AT HOLY CROSS COLLEGE" is bonafide work done by Sangeetha.M, Brindha.M, PonAbisha.M, Suja.P in partial fulfillment award of the Degree of Bachelor of Mathematics (SF) during academic year 2023-2024

Internal Guide

Head of the department  
Department of Mathematics (S.F.)  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

Submitted for the viva voice examination held at Holy cross college on 26/12/2023

Internal Examiner

External Examiner

## ENVIRONMENTAL IMPACT OF E-WASTES

Project report on Environmental Studies submitted to Holy Cross College (Autonomous),  
Nagercoil in partial fulfilment of the requirements for the award of degree of

## BACHELOR OF SCIENCE IN MATHEMATICS

By

FAHEEMAH. K

Reg. No. 2021SUM008

HEIDA. J

Reg. No. 2021SUM010

SANJANA LAKSHMI. P. M

Reg. No. 2021SUM018

VARSHA. V

Reg. No. 2021SUM023

Under the guidance of

MRS. C. SHERISHA, M.Sc., M.Phil., B.Ed.

Assistant Professor in department of Computer Science (Self Financed)



DEPARTMENT OF MATHEMATICS (SELF FINANCED)

HOLY CROSS COLLEGE (AUTONOMOUS)

RE-ACCREDITED WITH A+ GRADE (CGPA 3.35)

(AFFILIATED TO MANONMANIAM SUNDARANAR UNIVERSITY)

NAGERCOIL-629 004

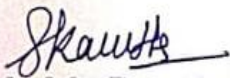
OCTOBER-2023

**CERTIFICATE**

This is to certify that the dissertation entitled “ENVIRONMENTAL IMPACT OF E-WASTES” submitted by FAHEEMAH.K (Reg.No.2021SUM008), HEIDA.J (Reg.No.2021SUM010), SANJANA LAKSHMI. P.M (Reg.No.2021SUM018), VARSHA.V (Reg.No.2021SUM023) of III B.Sc. Mathematics (Self-Financed), Holy Cross College (Autonomous), Nagercoil, in partial fulfilment of the requirement for the award to the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by them under my supervision and guidance.


Place: Nagercoil

Date:



**Head of the Department**

Department of Mathematics (S.F)



**MRS. C. SHERISHA, M.Sc., M.Phil., B.Ed.**

Supervisor

**Department of Mathematics (S.F.)**

**Holy Cross College (Autonomous)**

**Nagercoil - 629 004.**



## DECLARATION

We hereby declare that this project work on Environmental Studies titled "ENVIRONMENTAL IMPACT OF E-WASTES" submitted by us for the degree of BACHELOR OF SCIENCE IN MATHEMATICS is done to the under the guidance of MRS. C. SHERISHA, M.Sc., M.Phil., B.Ed., Department of Computer Science, Holy Cross College (Autonomous), Nagercoil was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associateship or fellowship of any other University or Institution.

Place: Nagercoil

Date:

*Faheemah.k*

**FAHEEMAH. K**

*J. Heida*  
**HEIDA. J**

*P.M. Sanjana Lakshmi*

**SANJANA LAKSHMI. P.M**

*V. Varsha*

**VARSHA. V**



**DEPARTMENT OF PHYSICS**

**A SURVEY ON DRAINAGE AND LAND POLLUTION AT  
SAMATHANAPURAM AND MANAKUDY LOCALITY**

*Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in Partial fulfilment of the requirements for the award of the Degree of Bachelor of Physics*

**Submitted by**

Name of the students	Register Number
DEVA DHARSHINI. T	2021AUP068
DEVONNAA.S	2021AUP069
DHARSHINI. R	2021AUP070
FELINA ASMI. A	2021AUP071
GIABLE ERSINI. B	2021AUP072

**Under the guidance of**

**Dr.V.Shally, M.Sc., M.Phil., Ph.D.**



**DEPARTMENT OF PHYSICS**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**OCTOBER 2023**

Dr. V. Shally, M.Sc., M.Phil., Ph.D.  
Department of physics,  
Holy Cross College(Autonomous),Nagercoil-629004

## CERTIFICATE

This is to certify that the project work on Environmental Studies titled “ A SURVEY ON DRAINAGE AND LAND POLLUTION submitted by T.Deva Dharshini,S.Devonna,R.Dharshini, A.Felina Asmi,B.Giable Ersini of III B.Sc Physics Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Physics is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date: 24/10/23



HEAD OF DEPARTMENT



SUPERVISOR

**Dr. C. NIRMALA LOUIS**, M.Sc., Ph.D., PGDCA  
Head & Associate Professor,  
P. G. & Research Department of Physics  
Holy Cross College (Autonomous),  
Nagercoil, Kanyakumari District,  
Tamil Nadu, Pin: 629 004.



## DECLARATION

We hereby declare that the project work on Environmental Studies titled "A SURVEY ON DRAINAGE AND LAND POLLUTION" submitted by us for the degree of Bachelor of Physics done under the guidance of Dr.V.Shally M.Sc., M.Phil., Ph.D, Department of Physics Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Name and Signature of the Students

Date: 24-10-2023

- |                    |                  |
|--------------------|------------------|
| 1.T.DEVA DHARSINI  | T. Deva Dharsini |
| 2.S.DEVONNA        | S. Devonna       |
| 3.R.DHARSHINI      | R. Dharsini      |
| 4.A.FELINA ASMI    | A. Felina Asmi   |
| 5.B. GIABLE ERSINI | B. Giable Ersini |

**Water Pollution: A threat to the Society**

PROJECT SUBMITTED TO THE CENTER FOR ENVIRONMENTAL EDUCATION,  
HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL.

Submitted By

Name	Registration Number
1.Aruna Devi. T	2021AUP058
2.Ashiba. A	2021AUP059
3.Ashmin. M	2021AUP060
4.Banu. K	2021AUP061
5.Bithuna. E	2021AUP062

Under the guidance of

**Dr. V.Shally,M.Sc.,M.Phil.,Ph.D.**



**DEPARTMENT OF PHYSICS**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**November-2023**

**Dr.V.Shally, M.sc., M.Phil., Ph.D.**  
Assistant Professor  
Department of Physics  
Holy Cross College (Autonomous),  
Nagercoil - 629 004.

## CERTIFICATE

This is to certify that the project work on Environmental Studies titled “**WATER POLLUTION**” submitted by **Aruna Devi.T, Ashiba.A, Ashmin.M, Banu.K, Bithuna.E** of **III Bsc.PHYSICS** Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of **PHYSICS** is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Dr. V.Shally,M.Sc.,M.Phil.,Ph.D.

Date: 24/10/23

  
Signature of the guide



**Dr. C. NIRMALA LOUIS, M.Sc.,Ph.D.,PGDCA,**  
Head & Associate Professor,  
P. G. & Research Department of Physics,  
Holy Cross College (Autonomous),  
Nagercoil, Kanyakumari District,  
Tamil Nadu, Pin: 629 004.

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "WATER POLLUTION" submitted by us for the degree of Bachelor of PHYSICS done under the guidance of Dr.V.Shally, M.sc., M.Phil., Ph.D. Department of PHYSICS, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Name	Reg. No.	Signature
Aruna devi. T	2021AUP058	<i>Aruna Devi. T</i>
Ashiba. A	2021AUP059	<i>Ashiba</i>
Ashmin. M	2021AUP060	<i>Ashmin</i>
Banu. K	2021AUP061	<i>K. Banu</i>
Bithuna. E	2021AUP062	<i>Bithuna. E</i>

Place: Nagercoil

Date: *24/10/23*



## LAND POLLUTION IN KANJAMPURAM

*Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the requirements for the award of the Degree of Bachelor of physics*

Submitted by

Name of the students	Register Number
Sahaya Lasniga.S	(2021AUP085)
Shivani Devi.A	(2021AUP087)
Shiyara.J	(2021AUP088)
Sri DivyaDharshini.K	(2021AUP089)
Thanusha.T	(2021AUP090)

Under the guidance of

**Dr.P.Aji Udhaya ,Msc.,M.Phil.,SET.,PGDCA,Ph.D**



**DEPARTMENT OF PHYSICS (AIDED)**

**HOLY CROSS COLLEGE (AUTONOMOUS)**

**(AFFILATED TO MANIONMANIAM SUNDARANAR UNIVERSITY)**

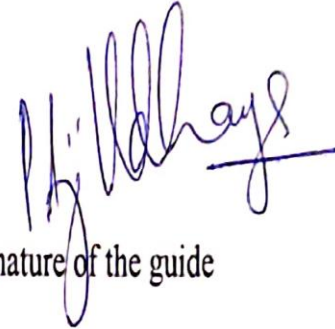
**NAGERCOIL-629 004**

## CERTIFICATE

This is to certify that the project work on Environmental Studies titled“ LAND POLLUTION IN KANJAMPURAM”,submitted to the centre for Environmental education, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of physics a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date: 24/10/23



Signature of the guide

Dr.P.Aji Udhaya, MSc. MPhil. SET.,PGDCA.,Ph.D



**Dr. C. NIRMALA LOUIS**, M.Sc.,Ph.D.,PGDCA.,  
Head & Associate Professor,  
P. G. & Research Department of Physics,  
Holy Cross College (Autonomous),  
Nagercoil, Kanyakumari District,  
Tamil Nadu, Pin: 629 004.



## DECLARATION

We hereby declare that the project work on Environmental Studies titled “LAND POLLUTION IN KANJAMPURAM” submitted by us for the degree of Bachelor of Physics done under the guidance of Dr. P. Aji Udhaya, MSc., M.Phil., SET., PGDCA., Ph.D. Department of Physics, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Name	Reg.No.	Signature
Sahaya Lasniga.S	(2021AUP085)	Sahaya Lasniga.S
Shivani Devi.A	(2021AUP087)	Shivani
Shiyara.J	(2021AUP088)	J. Shiyara
Sri Divya Dharshini.K	(2021AUP089)	Sri Divya Dharshini.K
Thanusha.T	(2021AUP090)	Thanusha

Place: Nagercoil

Date: 24/10/23

**DEPARTMENT OF CHEMISTRY**

**STUDY OF MEDICINAL PLANTS IN AADARAAVILLAI VILLAGE**

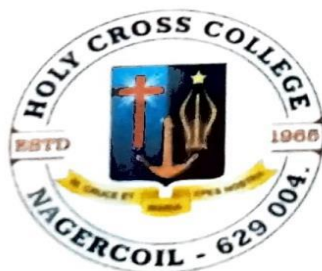
*Project report on Environmental Studies submitted to  
Holy Cross College (Autonomous), Nagercoil affiliated to  
Manonmaniam Sundaranar University, Tirunelveli in partial fulfilment  
of the requirements for the award of the Degree of  
BACHELOR OF SCIENCE IN CHEMISTRY*

*Submitted by*

<b>Name of the Student</b>	<b>Register Number</b>
<b>S. SELVA RENJITH SHAMINI</b>	<b>2021AUC086</b>
<b>S. AGNEL NIVITHA</b>	<b>2021AUC093</b>
<b>P. ANTO RINISHA</b>	<b>2021AUC094</b>
<b>S. ANUSHMITA</b>	<b>2021AUC095</b>
<b>S. ANUSHYA</b>	<b>2021AUC096</b>
<b>H. ARPUTHA YAZHINI</b>	<b>2021AUC097</b>

*Under the Guidance of*

**Dr. S. AJITH SINTHUJA**  
**Assistant Professor of Chemistry**



**DEPARTMENT OF CHEMISTRY**  
**HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL**  
Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC  
Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**OCTOBER, 2023**

**Dr. S. Ajith Sinthuja**  
Assistant Professor  
Department of Chemistry  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

## CERTIFICATE

This is to certify that the project work on Environmental Studies titled “**STUDY OF MEDICINAL PLANTS IN AADARAAVILLAI VILLAGE**” submitted by S. Selva Renjith Shamini, S. Agnel Nivitha, P. Anto Rinisha, S. Anushmita, S. Anushya and H. Arputha Yazhini of III B.Sc Chemistry, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Chemistry is a bonafide record of the work done by them under my supervision.

Place: Nagercoil

Date: 26/10/2023



**Dr. M. Anitha Malbi**  
(Head of the Department)



**Dr. S. Ajith Sinthuja**  
(Supervisor)

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "STUDY OF MEDICINAL PLANTS IN AADARAAVILLAI VILLAGE" submitted by us for the award of the degree of Bachelor of Science in Chemistry done under the guidance of Dr. S. Ajith Sinthuja, Assistant Professor, Department of Chemistry, Holy Cross College, Nagercoil was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associateship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 26-10-2023

Name and Signature of the Students

S. Selva Renjith Shamini S. Selva Renjith Shamini

S. Agnel Nivitha Agnel Nivitha

P. Anto Rinisha P. Anto Rinisha

S. Anushmita S. Anushmita

S. Anushya S. Anushya

H. Arputha Yazhini H. Arputha Yazhini

**STUDY OF THE NATURE RESERVES AND TOURIST SPOTS OF  
KANYAKUMARI DISTRICT**

*Project report on Environmental Studies submitted to  
Holy Cross College (Autonomous), Nagercoil affiliated to  
Manonmaniam Sundaranar University, Tirunelveli in partial fulfilment  
of the requirements for the award of the Degree of  
BACHELOR OF SCIENCE IN CHEMISTRY*

*Submitted by*

<b>Name of the Student</b>	<b>Register Number</b>
<b>R. DEEPIKA</b>	<b>2021AUC098</b>
<b>P. EVANGELIN MISTIKA</b>	<b>2021AUC099</b>
<b>A. FATHIMA JAFREN</b>	<b>2021AUC100</b>
<b>S. JEFFERIN STANY</b>	<b>2021AUC101</b>
<b>J. JENITHA</b>	<b>2021AUC102</b>
<b>A. JERILSHA JOY</b>	<b>2021AUC103</b>

*Under the Guidance of*

**Dr. S. AJITH SINTHUJA**  
**Assistant Professor of Chemistry**



**DEPARTMENT OF CHEMISTRY**

**HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL**

Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC  
Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**OCTOBER, 2023**

**Dr. S. Ajith Sinthuja**  
Assistant Professor  
Department of Chemistry  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

### CERTIFICATE

This is to certify that the project work on Environmental Studies titled  
“STUDY OF THE NATURE RESERVES AND TOURIST SPOTS OF  
KANYAKUMARI DISTRICT” submitted by R. Deepika, P. Evangelin Mistika,  
A. Fathima Jafren, S. Jefferin Stany, J. Jenitha and A. Jerilsha Joy of III B.Sc  
Chemistry, Holy Cross College (Autonomous) in partial fulfillment of the  
requirements for the award of the Degree of Bachelor of Science in Chemistry is a  
bonafide record of the work done by them under my supervision.

Place: Nagercoil

Date: 26/10/2023



**Dr. M. Anitha Malbi**  
(Head of the Department)



**Dr. S. Ajith Sinthuja**  
(Supervisor)



## DECLARATION

We hereby declare that the project work on Environmental Studies titled "STUDY OF THE NATURE RESERVES AND TOURIST SPOTS OF KANYAKUMARI DISTRICT" submitted by us for the award of the degree of Bachelor of Science in Chemistry done under the guidance of **Dr. S. Ajith Sinthuja**, Assistant Professor, Department of Chemistry, Holy Cross College, Nagercoil was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associateship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 26/10/2023

Name and Signature of the Students

R. DEEPIKA *R. Deepika*

P. EVANGELIN MISTIKA *P. Evangelin Mistika*

A. FATHIMA JAFREN *A. Fathima Jafren*

S. JEFFERIN STANY *S. Jefferin Stany*

J. JENITHA *J. Jenitha*

A. JERILSHA JOY *A. Jerilsha Joy*

**STUDY OF TRIBAL HOME REMEDIES FOR TREATING COMMON DISEASES  
IN KANYAKUMARI DISTRICT**

*Project report on Environmental Studies submitted to  
Holy Cross College (Autonomous), Nagercoil affiliated to  
Manonmaniam Sundaranar University, Tirunelveli in partial fulfilment  
of the requirements for the award of the Degree of  
BACHELOR OF SCIENCE IN CHEMISTRY*

*Submitted by*

<b>Name of the Student</b>	<b>Register Number</b>
<b>J. JERSHIYA RINI</b>	<b>2021AUC104</b>
<b>S.K. JEYA SUBA</b>	<b>2021AUC105</b>
<b>J. JOSBIN JULIUT NISHIKA</b>	<b>2021AUC106</b>
<b>N. KHANA SARASWATHY</b>	<b>2021AUC107</b>
<b>V. KOWSALYA</b>	<b>2021AUC108</b>
<b>S. LIBUJA</b>	<b>2021AUC109</b>

*Under the Guidance of*

**Dr. S. AJITH SINTHUJA**  
**Assistant Professor of Chemistry**



**DEPARTMENT OF CHEMISTRY**

**HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL**

Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**OCTOBER, 2023**




Dr. S. Ajith Sinthuja  
Assistant Professor  
Department of Chemistry  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.


## CERTIFICATE

This is to certify that the project work on Environmental Studies titled "**STUDY OF TRIBAL HOME REMEDIES FOR TREATING COMMON DISEASES IN KANYAKUMARI DISTRICT**" submitted by J. Jershiya Rini, S.K. Jeya Suba, J. Josbin Juliut Nishika, N. Khana Saraswathy, V. Kowsalya and S. Libuja of III B.Sc Chemistry, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Chemistry is a bonafide record of the work done by them under my supervision.

Place: Nagercoil

Date: 26/10/2023

  
**Dr. M. Anitha Malbi**  
(Head of the Department)

  
**Dr. S. Ajith Sinthuja**  
(Supervisor)



## DECLARATION

We hereby declare that the project work on Environmental Studies titled "STUDY OF TRIBAL HOME REMEDIES FOR TREATING COMMON DISEASES IN KANYAKUMARI DISTRICT" submitted by us for the award of the degree of Bachelor of Science in Chemistry done under the guidance of Dr. S. Ajith Sinthuja, Assistant Professor, Department of Chemistry, Holy Cross College, Nagercoil was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associateship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 26.10.2023.

Name and Signature of the Students

J. Jershiya Rini *J. Jershiya Rini*

S.K. Jeya Suba *S.K. Jeya Suba*

J. Josbin Juliut Nishika *J. Josbin Juliut Nishika*

N. Khana Saraswathy *N. Khana Saraswathy*

V. Kowsalya *V. Kowsalya*

S. Libuja *S. Libuja*



## **STUDY OF THE ECONOMIC USES OF SEAWEEEDS**

*Project report on Environmental Studies submitted to  
Holy Cross College (Autonomous), Nagercoil affiliated to  
Manonmaniam Sundaranar University, Tirunelveli in partial fulfillment  
of the requirements for the award of the Degree of  
BACHELOR OF SCIENCE IN CHEMISTRY*

### *Submitted by*

<b>Name of the Student</b>	<b>Register Number</b>
<b>B. LIFA GONZAGA</b>	<b>2021AUC110</b>
<b>M. JENITA</b>	<b>2021AUC112</b>
<b>A. MARIYA SONY</b>	<b>2021AUC113</b>
<b>M. MEBISHA MOL</b>	<b>2021AUC114</b>
<b>T. RAJASHREE</b>	<b>2021AUC115</b>
<b>A. ROSRY ASLINE</b>	<b>2021AUC116</b>

### *Under the Guidance of*

**Dr. SHEEBA DANIEL**  
**Assistant Professor of Chemistry**



### **DEPARTMENT OF CHEMISTRY**

**HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL**

Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**OCTOBER, 2023**

**Dr. Sheeba Daniel**  
Assistant Professor  
Department of Chemistry  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

## CERTIFICATE

This is to certify that the project work on Environmental Studies titled “**STUDY OF THE ECONOMIC USES OF SEaweEDS**” submitted by B. Lifa Gonzaga, M. Jenita, A. Mariya Sony, M. Mebisha Mol, T. Rajashree and A, Rosary Asline of III B.Sc Chemistry, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Chemistry is a bonafide record of the work done by them under my supervision.

Place: Nagercoil

Date: 26/10/2023



**Dr. M. Anitha Malbi**  
(Head of the Department)



**Dr. Sheeba Daniel**  
(Supervisor)




## DECLARATION

We hereby declare that the project work on Environmental Studies titled “**STUDY OF THE ECONOMIC USES OF SEAWEEDS**” submitted by us for the award of the degree of Bachelor of Science in Chemistry done under the guidance of **Dr. Sheeba Daniel**, Assistant Professor, Department of Chemistry, Holy Cross College, Nagercoil was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associateship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 26.10.2023

Name and Signature of the Students

B. Lifa Gonzaga 

M. Jenita 

A. Mariya Sony 

M. Mebisha Mol 

T. Rajashree 

A. Rosary Asline



**A COMPREHENSIVE STUDY OF TRADITIONAL FOOD IN  
KOOTAPULI VILLAGE**

*Project report on Environmental Studies submitted to  
Holy Cross College (Autonomous), Nagercoil affiliated to  
Manonmaniam Sundaranar University, Tirunelveli in partial fulfilment  
of the requirements for the award of the Degree of  
BACHELOR OF SCIENCE IN CHEMISTRY*

*Submitted by*

<b>Name of the Student</b>	<b>Register Number</b>
<b>R. ROSENI</b>	<b>2021AUC117</b>
<b>I.A. SHERLY</b>	<b>2021AUC118</b>
<b>L. TONI LISHIKA</b>	<b>2021AUC119</b>
<b>S. TRIBINA MATHU MALAR</b>	<b>2021AUC120</b>
<b>V. VINISHA SHERIN</b>	<b>2021AUC121</b>
<b>A. VISHALE</b>	<b>2021AUC122</b>
<b>K. KAVIYA</b>	<b>2021AUC403</b>

*Under the Guidance of*

**Dr. SHEEBA DANIEL**  
**Assistant Professor of Chemistry**



**DEPARTMENT OF CHEMISTRY**  
**HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL**

Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC  
Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**OCTOBER, 2023**

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "A COMPREHENSIVE STUDY OF TRADITIONAL FOOD IN KOOTAPULI VILLAGE" submitted by us for the award of the degree of Bachelor of Science in Chemistry done under the guidance of **Dr. Sheeba Daniel**, Assistant Professor, Department of Chemistry, Holy Cross College, Nagercoil was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associateship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 26/10/2023

Name and Signature of the Students

R. ROSENI *R. Roseni*

I.A. SHERLY *Sherly*

L. TONI LISHIKA *Lishika*

S. TRIBINA MATHU MALAR *Tribina*

V. VINISHA SHERIN *Vinisha*

A. VISHALE *Vishal*

K. KAVIYA *K. Kaviya*

**Dr. Sheeba Daniel**  
Assistant Professor  
Department of Chemistry  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

## CERTIFICATE


This is to certify that the project work on Environmental Studies titled “**A COMPREHENSIVE STUDY OF TRADITIONAL FOOD IN KOOTAPULI VILLAGE**” submitted by R. Roseni, I.A. Sherly, L. Toni Lishika, S. Tribina Mathu Malar, V. Vinisha Sherin, A. Vishale and K. Kaviya of III B.Sc Chemistry, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Science in Chemistry is a bonafide record of the work done by them under my supervision.

Place: Nagercoil

Date: 26/10/2023



**Dr. M. Anitha Malbi**  
(Head of the Department)



**Dr. Sheeba Daniel**  
(Supervisor)



**DEPARTMENT OF BOTANY**

**STUDY OF NOISE POLLUTION IN KAVALKINARU, TIRUNELVELI DISTRICT,  
TAMILNADU, INDIA**

*Project report submitted to the*

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**  
*affiliated to Manonmaniam Sundaranar University, Tirunelveli*

*in partial fulfillment of the requirements for the award of the degree of*

**BACHELOR OF BOTANY**

*Submitted by*

W. Biniya Joshila	2021AUB124
J. Jainab Meera	2021AUB126
M. Manisha	2021AUB128
D. Sahaya Felcia	2021AUB131
J. Sahaya Subitha	2021AUB132

*Under the Guidance of*

**Dr. C. Anitha, Ph.D.**

Assistant professor, Department of Zoology,  
Holy Cross College (Autonomous), Nagercoil



**DEPARTMENT OF BOTANY**  
**HOLY CROSS COLLEGE(AUTONOMOUS)**  
**NAGERCOIL-629 004**

## DECLARATION

We W. Biniya Joshila, J. Jainab Meera, M. Manisha, D. Sahaya Felcia and J. Sahaya Subitha hereby declare that the project work entitled "Study of noise pollution in Kavalkinaru, Tirunelveli District, Tamilnadu, India" is a record of original work done by us under the guidance and supervision of Dr. C. Anitha, Ph.D., Assistant Professor, Department of Zoology, submitted to the Holy Cross College (Autonomous), Nagercoil. This report has not been submitted elsewhere for any degree or diploma.

NAME	REG.NO	SIGNATURE
W. Biniya Joshila	2021AUB124	W. Biniya Joshila
J. Jainab Meera	2021AUB126	J. Jainab
M. Manisha	2021AUB128	M. Manisha.
D. Sahaya Felcia	2021AUB131	D. Sahaya Felcia.
J. Sahaya Subitha.	2021AUB132	J. Sahaya Subitha

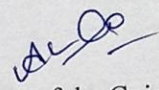
Dr. C. Anitha, Ph.D.,  
Assistant Professor,  
Department of Zoology,  
Holy Cross College (Autonomous),  
Nagercoil-629 004.

CERTIFICATE

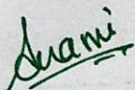
This is to certify that the project work entitled “**Study of noise pollution in Kavalkinaru, Tirunelveli District, Tamilnadu, India**” is the bonafide record of the group project work done by **W. Biniya Joshila, J. Jainab Meera, M. Manisha, D. Sahaya Felcia and J. Sahaya Subitha** under my supervision and guidance during the academic year 2023-2024. I further certify that this project is true and original work of the candidates submitted in partial fulfilment of the requirement for the Degree of Bachelor of Botany and has not been previously done by any other candidate for the award of any degree or diploma.

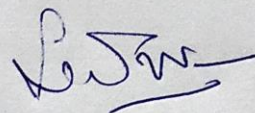
Place: Nagercoil

Date : 31/10/2023

  
Signature of the Guide,

[Dr. C. Anitha, Ph.D.]

  
Dr. ANANTHANANDAN, M.Sc., M.Phil., Ph.D.  
Head of the Department,  
Assistant Professor and Head  
Department of Botany  
Holy Cross College (Autonomous)  
Nagercoil-4.

  
External Examiner

## INTRODUCTION

Florence Nightingale recognized noise as a health hazard in 1859 when she wrote “Unnecessary noise is the cruelest abuse of care which can be inflicted on either the sick or the well”. Noise pollution; an urban territorial phenomenon is assuming serious proportions in every city. The frequency and intensity of pollution has been increasing day by day. Noise pollution is an annoyance to human beings. The noise is usually machine-created sound that disrupts activity or balance of human’s way of life. It is a growing environmental problem that is increasingly becoming an omnipresent, yet unnoticed form of pollution not only in developed countries but also in the developing countries. The word noise is derived from Latin word “Nausea” implying “unwanted sound” or sound that is loud, unpleasant or unexpected. It can be defined as wrong sound, in the wrong place and at the wrong time.

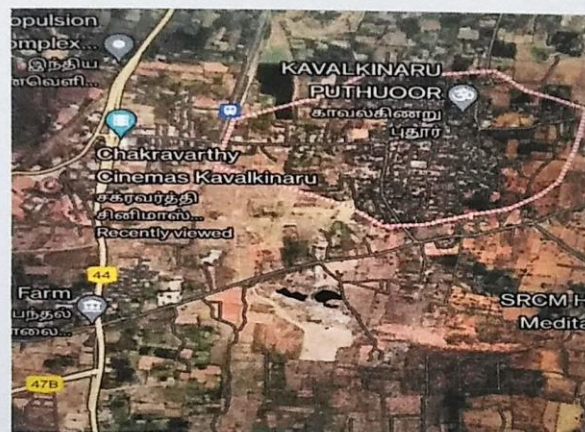
The noise problems of the past pale in significance When compared with those experienced by modern city dwellers; noise pollution continues to grow in extent, frequency, and severity as a result of population growth, urbanization, and technological developments. Due to exposure of noise people are suffering from difference kinds of diseases like Hearing Impairment, Interference with spoken communication, Sleep disturbances, cardiovascular disturbances, annoyance etc.

With the fast development of the world, particularly with developing counties urbanization has become quite phenomenon. Added to it, growth in the GDP with urban areas has become relatively high compared to rural areas. Migrations have grown in multiple folds to urban-urban towns and cities overcrowding them in recent few years. Consequently, the vehicular traffic, both goods and passenger has become unmanageable as there is no proportional widening of roads or alternative modern systems. With people looking for personal comforts and giving top priority for status, started looking at personal transportation needs instead of much desired public transportation. This has further aggravated the urban traffic

## Materials and Methods

### Study area

Kavalkinaru is a village panchayat in the Tirunelveli district of Tamil Nadu. It is located 24 km (15 Miles) from Nagercoil, 69 km (43 Miles) from Tirunelveli, and 99 km from Trivandrum International Airport. The nearest port, Tuticorin Port Trust, (also known as V.O. Chidambaram Port), is 111 km from Kavalkinaru. There are 700 families living, they dependent on agriculture, livestock, stone mining, flower cultivation and the processing of *Borassus* (Palmyra Tree), is now embracing new technologies and professions. The high tunneling-effect of the Western Ghats has enabled this region to be a major Wind Power generation area for India, with thousands of windmills. There are also the test facilities for ISRO Propulsion Complex, a part of Indian Space Research Organisation (ISRO), on the lower slopes of the Mahendragiri mountain near Kavalkinaru.



Kavalkinaru Junction adds to Kavakinaru's growth in many ways. National Highway 44, which connects Varanasi and Kanyakumari, bypasses through the center of this junction, making it a trade point in the entire region. Almost all basic facilities can be availed from the junction. There is a vegetable market, 'Kamaraj Market', situated besides the Junction, which attracts traders from all the regions of Tamil Nadu, making it a prime hub for trade and distribution to the Tirunelveli district and vegetables are loaded to adjacent states of Kerala. The informations were collected from the people were living in Kavalkinaru village by interacting with the people and asking question. Also, we can see the current situation and analyse.

**STUDY OF PLASTIC POLLUTION IN PALLAM COAST, KANYAKUMARI  
DISTRICT, TAMILNADU, INDIA**

*Project report submitted to Holy Cross College (Autonomous), Nagercoil, affiliated to  
Manonmaniam Sundaranar University, Tirunelveli in partial fulfilment of the requirements  
for the award of the Degree of*

**BACHELOR OF SCIENCE  
IN  
BOTANY**

*Submitted by*

<b>A. ANISHA</b>	<b>2021AUB123</b>
<b>R. ISHWARYA</b>	<b>2021AUB125</b>
<b>P. JEYA AROCKIA ANUSHA</b>	<b>2021AUB127</b>
<b>A. M. ROCKLIN BINOSHA</b>	<b>2021AUB130</b>
<b>J. GEETHA</b>	<b>2021AUB456</b>

*Under the Guidance of*

**Dr. C. Anitha, Ph.D.**

**Assistant professor, Department of Zoology,  
Holy Cross College (Autonomous), Nagercoil**



**DEPARTMENT OF BOTANY  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL-629 004**

## DECLARATION

We A. Anisha (Reg. No.: 2021AUB123), Ms. R. Ishwarya (Reg. No.: 2021AUB125), P. Jeya Arockia Anusha (Reg. No.: 2021AUB137), Ms. A. M. Rocklin Binoshha (Reg. No.: 2021AUB130) and Ms. J. Geetha (Reg. No.: 2021AUB456) hereby declare that the project work entitled “STUDY OF PLASTIC POLLUTION IN PALLAM COAST, KANYAKUMARI DISTRICT, TAMILNADU, INDIA” is a record of original work done by us under the guidance and supervision of Dr. C. Anitha, Ph.D., Assistant Professor, Department of Zoology, submitted to the Holy Cross College (Autonomous), Nagercoil. This report has not been submitted elsewhere for any degree or diploma.

NAME	REG. NO.	SIGNATURE
A. ANISHA	2021AUB123	Anisha A
R. ISHWARYA	2021AUB125	R. Ishwarya
P. JEYA AROCKIA ANUSHA	2021AUB127	Anusha P.
A. M. ROCKLIN BINOSHA	2021AUB130	Rocklin Binoshha A.M
J. GEETHA	2021AUB456	J. Geetha

**Dr. C. Anitha, Ph.D.,**

Assistant Professor,

Department of Zoology

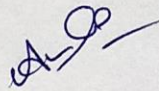
Holy Cross College (Autonomous), Nagercoil-629 004.

### CERTIFICATE

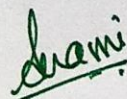
This is to certify that the project work entitled “**STUDY OF PLASTIC POLLUTION IN PALLAM COAST, KANYAKUMARI DISTRICT, TAMILNADU, INDIA**” is the bonafide record of the group project work done by A. Anisha, R. Ishwarya, P. Jeya Arockia Anusha, A.M. Rocklin Binosha and J. Geetha under my supervision and guidance during the academic year 2023-2024. I further certify that this project is true and original work of the candidates submitted in partial fulfilment of the requirement for the Degree of Bachelor of Botany and has not been previously done by any other candidate for the award of any degree or diploma.

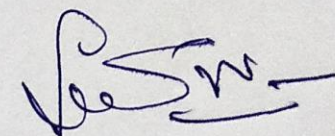
Place: Nagercoil,

Date : 31-10-2023

  
Signature of the Guide,

[Dr. Anitha, Ph.D.,]

  
Head of the Department  
Dr. A. ANAND AUGUSTUS ARUL, M.Sc., M.Phil., Ph.D.  
Assistant Professor and Head  
Department of Botany  
Holy Cross College (Autonomous)  
Nagercoil-4.

  
External Examiners



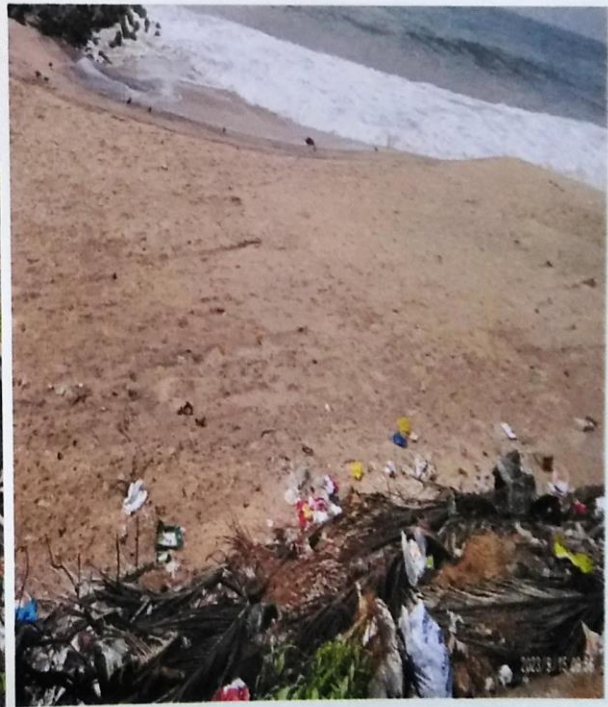
## Introduction

The coastal marine environment plays a vital role in India's Economy by virtue of its natural resources, potential habitats and wide Biodiversity. This review article summarizes sources, occurrences, fate and effects/ impacts of plastics debris in coastal marine environment due to its resistance to degradation. Most plastics debris will persist in the environment for centuries and may be transported far from its sources including great distances out to sea. Land and oceans-based sources are the major sources of plastics entering the environment, with domestic, industrial and fishing activities being the most important contributors. Both macro plastics and micro plastics pose a risk to organisms in the natural environment, for example, through ingestion or entanglement in the plastics. Many studies have investigated the potential uptake of hydrophobic contaminants, which can then bioaccumulate in the food chain from plastic wastes by organisms. A large number of marine species is known to be harmed and /or killed by plastic debris, which could jeopardize their survival, especially since many are already endangered by other forms of anthropogenic activities. Marine animals are mostly affected through entanglement in and ingestion of plastic litter. Other less known threats include the use of plastic debris by "invader" species and the absorption of polychlorinated biphenyls from ingested plastics. Less conspicuous forms, such as plastic pellets and "scrubbers" are also hazardous. To address the issue of plastic pollution in the marine environment, governments should first play an active role in addressing the issue of plastic waste by introducing legislation to control the sources of plastic debris and the use of plastic additives. In addition, plastic industries should take responsibility for the end-of-life of their products by introducing plastic recycling or upgrading programmes.

The dependence on plastic materials for modern life has led to an increase of plastic waste in coastal systems. Microplastics (plastics < 5 mm in size) in particular, have induced alarm among scientific and management bodies as an emerging marine and coastal contaminant. Recent studies suggest that these small plastic particles are ubiquitous in the marine system, as they have been recorded in every coastal and marine habitat around the world. The presence of microplastics in the environment has been shown to have negative

## Results

Different types of degradable and non-degradable pollutants were observed including plastics, waste nylon cloths, papers, household wastes, single time used polytene bags etc.



**Plate 1: Photograph of polluted area Pallam**

**DEPARTMENT OF ZOOLOGY**

**EFFECTS OF FEW PLANT LITRES ON SOIL FERTILITY**

Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil  
affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the requirements for the award  
of the Degree of

**Bachelor of Science**

**In**

**Zoology**

**Submitted by**

**Name of the students**

**Register Number**

Saranya, K.

2021AUZ151

Selva Lekshmi, S.

2021AUZ152

Shafna Sherin, M.

2021AUZ153

Ubasana, J.

2021AUZ154

Varshini, J.

2021AUZ155



**DEPARTMENT OF ZOOLOGY**

**HOLY CROSS COLLEGE (AUTONOMOUS),**

**NAGERCOIL 629004**

**OCTOBER 2023**

Dr. C. Josephine Priyatharshini, M.Sc., B.Ed, Ph.D.,

Assistant Professor,

Department of Zoology,

Holy Cross College (Autonomous)

Nagercoil-4

## CERTIFICATE

This is to certify that the project entitled "Analysis of Few Plant Litters on Soil Fertility" is a bonafide record of work done by Saranya, K. (2021AUZ151), Selva Lekshmi, S.(2021AUZ152), Shafna Sherin, M. (2021AUZ153), Ubasana, J. (2021AUZ154), Varshini, J. (2021AUZ155) under my supervision during their tenure towards the partial fulfilment of their requirement for the degree of Bachelor of Science in Zoology at Holy Cross College (Autonomous), Nagercoil, affiliated to Manonmaniam Sundaranar University, Tirunelveli.

Place: Nagercoil

Date: 31.10.2023

  
Dr.C.Josephine Priyatharshini

Supervisor

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "Analysis Of Few Plant Litters on Soil Fertility" submitted by us for the degree of Bachelor of science done under the guidance of Dr.C.Josephine Priyatharshini, Assistant professor, Department of Zoology, Holy Cross College (Autonomous), Nagercoil, and this work has not been submitted else where for any other degree

Place : Nagercoil

Date :

Name of the Student.	Reg.No.	Signature
Saranya, K.	2021AUZ151	Saranya.K
Selva Lekshmi, S.	2021AUZ152	Selva
Shafna Sherin, M.	2021AUZ153	Shafna
Ubasana, J.	2021AUZ154	Ubasana.J
Varshini, J.	2021AUZ155	Varshini.J

**EFFECTS OF PLANT LITRES ON SOIL FERTILITY**

*Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil . affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the requirements for the award of the Degree of Bachelor of science*

**In**

**Zoology**

**Submitted by**

<b>Name of the students</b>	<b>Register Number</b>
<b>I.Nisolin Rajee</b>	<b>2021AUZ147</b>
<b>M. Mathija</b>	<b>2021AUZ146</b>
<b>J. Kenish Miyhiyal.</b>	<b>2021AUZ145</b>
<b>R. Karunya.</b>	<b>2021AUZ144</b>
<b>S.Remi Thasni</b>	<b>2021AUZ150</b>



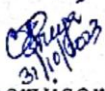
**DEPARTMENT OF ZOOLOGY**  
**HOLY CROSS COLLEGE (AUTONOMOUS),**  
**NAGERCOIL 629004**


**October 2023**

BONAFIDE CERTIFICATE

BONAFIDE

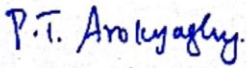
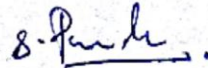
This is to certify that the project work on Environmental Studies titled "Effect of plant litter on soil fertility" submitted by I Nisolin Rajee (2021AUZ147) M.Mathija (2021AUZ146) J.Kenish Mithiyal (2021AUZ145) S.Remi Thasni (2021AUZ150) R.karunya (2021AUZ144), Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University, Tirunelveli towards the partial fulfillment of the requirements for the Degree of Bachelor of science in Zoology is a bonafide record of the work carried out by them under the guidance and supervision of Dr.C.Josephine Priyatharshini, Assistant professor, Department of Zoology, Holy Cross College (Autonomous)

  
Supervisor

  
Head of the Department

**Dr.A.SHYLA SUGANTHI, M.Sc.,Ph.D.,**  
HOD, Department of Zoology  
Holy Cross College (Autonomous)  
Nagercoil-629 004

Submitted for vaiva voce Examination held on 31.10.2023

   
External Examiners  
Dr. P.T. Arokyagaly G. Pradeep  
Dr. S. Prakash Shoba

Dr. C. Josephine Priyatharshini , M.Sc.,B.Ed, M.Phil, Ph.D,  
Assistant Professor,  
Department of Zoology,  
Holy Cross College (Autonomous)  
Nagercoil-4

CERTIFICATE

This is to certify that the project entitled Effects of plant litres on soil fertility is a bonafide record of work done by I.Nisolin Rajee (2021AUZ147) M.Mathija (2021AUZ146), J.Kenish Mithiya (2021AUZ145), S.Remi Thasni(2021AUZ150), R.karunya (21AUZ144) under my supervision during their tenure towards the partial fulfilment of their requirement for the degree of Bachelor of Science in Zoology at Holy Cross College (Autonomous), Nagercoil, affiliated to Manonmaniam Sundaranar University, Tirunelveli.

Place: Nagercoil

Dr.C.Josephine Priyatharshini

*CJP*  
*31/10/2023*

Date: 31-10-2023

Supervisor


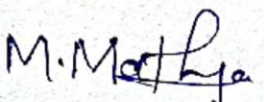
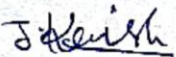
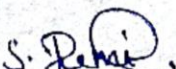



## DECLARATION

We hereby declare that the project work on Environmental Studies titled "Effect of plant litres on soil fertility" submitted by us for the degree of Bachelor of science done under the guidance of Dr.C.Josephine Priyatharshini Assistant professor , Department of Zoology , Holy Cross College (Autonomous), Nagercoil, and this work has not been submitted else where for any other degree.

Place : Nagercoil

Date : 31-10-2023

Name of the Student.	Reg.No.	Signature
I Nisolin Rajee.	2021AUZ147	
M.Mathija.	2021AUZ146	
J.Kenish Mithiyal.	2021AUZ145	
S.Remi Thasni .	2021AUZ150	
R.Karunya	2021AUZ144	

**EFFECT OF VERMICOMPOST ON SOIL FERTILITY**

**A report submitted in partial fulfillment of the requirements for the Award of degree  
of**

**BACHELOR OF SCIENCE**

**IN**

**ZOOLOGY**

**Submitted by**

<b>Name of the students</b>	<b>Register No.</b>
<b>BERCLIN. S</b>	<b>2021AUZ449</b>
<b>PRADISHA. S</b>	<b>2021AUZ450</b>
<b>SAHAYA MINI. A</b>	<b>2021AUZ451</b>
<b>ABISHA. R</b>	<b>2021AUZ443</b>
<b>AKISHA MOL. S</b>	<b>2021AUZ407</b>
<b>SOWMIYA. T.</b>	<b>2021AUZ408</b>



**DEPARTMENT OF ZOOLOGY**

**HOLY CROSS COLLEGE (AUTONOMOUS),**

**NAGERCOIL - 629004**

**October 2023**

Dr. C. Josephine Priyatharshini , M.Sc., B.Ed., Ph.D,  
Assistant Professor,  
Department of Zoology,  
Holy Cross College (Autonomous)  
Nagercoil-4

### CERTIFICATE

This is to certify that the project entitled“ EFFECT OF VVERMICOMPOSTON SOIL FERTILITY” submitted by Berlin.S (2021AUZ449), Pradisha.S (2021AUZ450), Sahaya Mini.A (2021AUZ452),Abisha.R (2021AUZ443), Akisha Mol.S (22021AU407), Sowmiya.T (2021AUZ408) under my supervision during their tenure towards the partial fulfilment of their requirement for the degree of Bachelor of Science in Zoology at Holy Cross College (Autonomous), Nagercoil, affiliated to Manonmaniam Sundaranar University, Tirunelveli.

Place: Nagercoil

Date: 31-10-2023

  
Supervisor



## DECLARATION

We hereby declare that the project work on Environmental Studies titled "EFFECT OF VERMICOMPOST ON SOIL FERTILITY" submitted by us for the degree of Bachelor of science done under the guidance of Dr.C.Josephine Priyatharshini, Assistant professor , Department of Zoology , Holy Cross College (Autonomous), Nagercoil, and this work has not been submitted else where for any other degree.

Place : Nagercoil

Date : 31-10-2023

Name of the Student.	Reg.No.	Signature
BERCLIN.S	2021AUZ449	Berlin.S
PRADISHA.S	2021AUZ450	Pradisha.S
SAHAYA MINI. A	2021AUZ451	Sahaya Mini.A
ABISHA. R	2021AUZ443	Abisha.R
AKISHA MOL. S	2021AUZ407	Akisha Mol.S
SOWMIYA. T.	2021AUZ408	Sowmiya.T



**BONAFIDE CERTIFICATE**

This is to certify that the project work on Environmental Studies titled "Analysis of Few Plant Litters on Soil Fertility" submitted by Saranya, K. (2021AUZ151), Selva Lekshmi, S.(2021AUZ152), Shafna Sherin, M. (2021AUZ153), Ubasana, J. (2021AUZ154), Varshini, J. (2021AUZ155), Department of Zoology, Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University, Tirunelveli towards the partial fulfillment of the requirements for the Degree of Bachelor of science in Zoology is a bonafide record of the work carried out by them under the guidance and supervision of Dr.C.Josephine Priyatharshini, Assistant professor, Department of Zoology, Holy Cross College (Autonomous) Nagercoil.



**Supervisor**



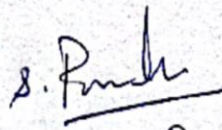
**Head of the Department**  
Dr. A. SHYLA SUGANTHI, M.Sc., Ph.D.,  
HOD, Department of Zoology  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

Submitted for vaiva voce Examination held on 31.10.2024

P.T. Arokyaslopy.

**External Examiners**

Dr. P. T. Arokyaslopy



Dr. S. Prakash Shoba

**STUDY ON THE EFFECT OF TARMARIND LEAF LITTERS ON SOIL FERTILITY**

*Project report submitted to Holy Cross College (Autonomous), Nagercoil, affiliated to  
Manonmaniam Sundaranar University, Tirunelveli in partial fulfilment of the  
requirements for the award of the Degree of*

**BACHELOR OF SCIENCE  
IN  
ZOOLOGY**

*Submitted By*

**Sr. S. ANTO MONISHA.** - (Reg. No.: 2021AUZ138)  
**A. ANU FLOWERCY** - (Reg. No.: 2021AUZ139)  
**K. ANUSHA** - (Reg. No.: 2021AUZ140)  
**F. DEENU** - (Reg. No.: 2021AUZ141)  
**N. DHARSHINI** - (Reg. No.: 2021AUZ142)



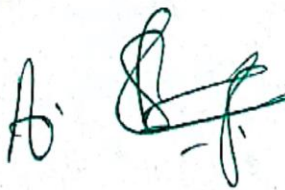
**DEPARTMENT OF ZOOLOGY  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL**

**NOVEMBER 2023**

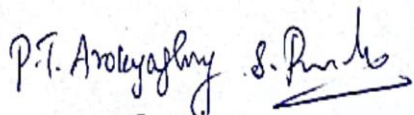
## BONAFIDE CERTIFICATE

This is to certify that the project entitled "STUDY ON THE EFFECT OF TARMARIND LEAF LITTERS ON SOIL FERTILITY " is a bonafide record of work done by Sr. S. ANTO MONISHA (Reg. No.: 2021AUZ138), A. ANU FLOWERCY (Reg. No.: 2021AUZ139), K. ANUSHA (Reg. No.: 2021AUZ140), F. DEENU (Reg.No.:2021AUZ141) and N. DHARSHINI (Reg. No.: 2021AUZ142) under the guidance and supervision of Dr. C. Anitha, during their tenure towards the partial fulfilment of their requirement for the degree of Bachelor of Science in Zoology at Holy Cross College (Autonomous), Nagercoil, affiliated to Manonmaniam Sundaranar University, Tirunelveli.

  
Supervisor

  
Head of the Department  
**Dr. A. SHYLA SUGANTHI, M.Sc, Ph.D.**  
HOD, Department of Zoology  
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Nagercoil-629 004

Submitted for Viva Voce Examination held on ...31.10.2023

  
External Examiner

Dr. C. Anitha, M.Sc., B.Ed, M.Phil., Ph.D,  
Assistant Professor,  
Department of Zoology,  
Holy Cross College (Autonomous)  
Nagercoil-4

**CERTIFICATE**

This is to certify that the project entitled "STUDY ON THE EFFECT OF TARMARIND LEAF LITTERS ON SOIL FERTILITY" is a bonafide record of work done by Sr.S.ANTO MONISHA (Reg. No.: 2021AUZ138), A. ANU FLOWERCY (Reg.No.:2021AUZ139), K. ANUSHA (Reg.No.:2021AUZ140), F. DEENU (Reg.No.:2021AUZ141) and N. DHARSHINI (Reg. No.: 2021AUZ142) under my supervision during their tenure towards the partial fulfilment of their requirement for the degree of Bachelor of Science in Zoology at Holy Cross College (Autonomous), Nagercoil, affiliated to Manonmaniam Sundaranar University, Tirunelveli.

Place: Nagercoil

Date: 31.10.2023

  
Dr. C. Anitha

Supervisor





## DECLARATION

We hereby affirm that the project work entitled "STUDY ON THE EFFECT OF TARMARIND LEAF LITTERS ON SOIL FERTILITY" being submitted to Manonmaniam Sundaranar University, Tirunelveli, in partial fulfilment of the degree of Bachelor of Science in Zoology was entirely carried out by us at the Department of Zoology, Holy Cross College, Nagercoil, under the guidance of Dr. C. Anitha, Assistant Professor in the Department of Zoology, Holy Cross College, Nagercoil and this work has not been submitted elsewhere for any other degree.

Place: Nagercoil

Date: 31.10.2023

Name of the Student	Reg. No.	Signature
Sr. S. ANTO MONISHA.	(Reg. No.: 2021AUZ138)	Sr. S. Anto Monisha
A. ANU FLOWERCY	(Reg. No.: 2021AUZ139)	A. Anu Flowercy
K. ANUSHA	(Reg. No.: 2021AUZ140)	K. Anusha
F. DEENU	(Reg. No.: 2021AUZ141)	F. Deenu
N. DHARSHINI	(Reg. No.: 2021AUZ142)	Dharshini N

**STUDY ON THE EFFECT OF LEAF LITTERS (*MANGIFERA INDICA*, *ANNONA SQUAMOSA* AND *AZADIRACHTA INDICA*) ON SOIL FERTILITY**

Project report submitted to Holy Cross College (Autonomous) Nagercoil affiliated to Manonmaniam Sundaranar University, Tirunelveli in partial fulfilment of the requirements for the award of the degree of

**BACHELOR OF SCIENCE**

**IN**

**ZOOLOGY**

*Submitted by*

<b>Name</b>	<b>Reg. No.</b>
Vinnarasi. A	2021AUZ092
Aadharsha. G.K	2021AUZ133
Abi Esther. R	2021AUZ134
Abinaya Sree. S	2021AUZ135
Abisha. I	2021AUZ136



**DEPARTMENT OF ZOOLOGY,  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL – 629004**

**OCTOBER – 2023**

Dr. C. Anitha, M.Sc., M.Phil., B.Ed., Ph.D  
Assistant Professor,  
Department of Zoology,  
Holy Cross College (Autonomous)  
Nagercoil – 4

### CERTIFICATE

This is to certify that the dissertation entitled “STUDY ON THE EFFECT OF LEAF LITTERS (*MANGIFERA INDICA*, *ANNONA SQUAMOSA* AND *AZADIRACHTA INDICA*) ON SOIL FERTILITY” is a bonafide record of work done by Vinnarasi, A., (Reg. No: 2021AUZ135) Aadharsha, G.K., (Reg. No: 2021AUZ133) Abi Esther, R., (Reg. No:2021AUZ134) Abinaya Sree, S., (Reg. No:2021AUZ135), Abisha, I., (Reg.No:2021AUZ136) under my supervision during their tenure towards partial fulfillment of the requirement for the degree of Bachelor of Science in Zoology at Holy Cross College (Autonomous), Nagercoil, affiliated to Manonmaniam Sundharanar University, Tirunelveli. This dissertation or any part of this has not been submitted elsewhere for any other degree.

Place: Nagercoil

Date: 31.10.2023

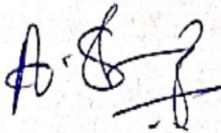
*An OP*  
*31/10/2023*

(Dr. C. Anitha)

Supervisor

**BONAFIDE CERTIFICATE**

This is to certify that the dissertation entitled "STUDY ON THE EFFECT OF LEAF LITTERS (*MANGIFERA INDICA*, *ANNONA SQUAMOSA* AND *AZADIRACHTA INDICA*) ON SOIL FERTILITY" submitted by Vinnarasi. A, Reg. No.2021AUZ092, Aadharsha G.K, Reg. No. 2021AUZ133, Abi Esther R, Reg. No. 2021AUZ134, Abinaya Sree S, Reg. No. 2021AUZ135, Abisha. I, Reg. No. 2021AUZ136 to Holy Cross College (Autonomous), Nagercoil, affiliated to Manonmaniam Sundaranar University in partial fulfillment of the requirements for the award of the degree of Bachelor of science in zoology, is a bonafide record of the work carried out by her under the guidance and supervision of Dr. C. Anitha, M.Sc., B.Ed., M. Phil. Ph.D., Assistant Professor in zoology, Holy Cross College (Autonomous), Nagercoil, during the academic year 2023-2024.

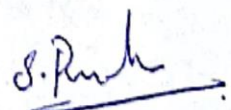


Head of the Department  
**Dr. A. SHYLA SUGANTHI, M.Sc., Ph.D.**  
HOD, Department of Zoology  
Holy Cross College (Autonomous)  
Nagercoil-629 004



Supervisor

Submitted for Viva-Voce examination held on 31.10.2023

  
P.T. Aruliyagalingam  
External Examiner

## DECLARATION

We hereby affirm that the project work entitled “**STUDY ON THE EFFECT OF LEAF LITTERS (*MANGIFERA INDICA*, *ANNONA SQUAMOSA* AND *AZADIRACHTA INDICA*) ON SOIL FERTILITY**” being submitted to Manonmaniam Sundaranar University, Tirunelveli, in partial fulfillment of the degree of Bachelor of Science in Zoology was entirely carried out by us at the Department of Zoology, Holy Cross College, Nagercoil, under the guidance of Dr. C. Anitha, Assistant Professor in the Department of Zoology, Holy Cross College, Nagercoil and this work has not been submitted elsewhere for any other degree.

Place: Nagercoil

Date :

Name of the Student	Reg. No.	Signature
A. VINNARASI	2021AUZ092	<i>A. Vinnarasi</i>
G.K. AADHARSHA	2021AUZ133	<i>G.K. Aadharsha</i>
R. ABI ESTHER	2021AUZ134	<i>R. Abi Esther</i>
S. ABINAYA SREE	2021AUZ135	<i>S. Abinaya Sree</i>
I. ABISHA	2021AUZ136	<i>I. Abisha</i>

**DEPARTMENT OF COMPUTER SCIENCE**

**TRADITIONAL HERBAL REMEDIES**

Project report on Environmental Studies submitted to Holy Cross College  
(Autonomous), Nagercoil in partial fulfillment of the requirements for the award of the

**BACHELOR OF COMPUTER SCIENCE**

Submitted By

**VENISHA.V**

**Reg. No. 2021SUS060**

**ANNA JOENCY.B**

**Reg. No. 2021SUS027**

**LENCIA.J**

**Reg. No. 2021SUS039**

**DIVYA.C**

**Reg. No. 2021SUS342**

Under the guidance of

**Dr. R. REENA ROSE M.Sc., M.Phil., Ph.D.,**

Assistant Professor in department of Computer Science



**DEPARTMENT OF COMPUTER SCIENCE**

**HOLY CROSS COLLEGE (AUTONOMOUS)**

**RE-ACCREDITED WITH A+ GRADE (CGPA3.35)**

**(AFFILIATED TO MANONMANIAN SUNDARANARUNIVERSITY)**

**NAGERCOIL-629 004**

**OCTOBER-2023**

## CERTIFICATE

This is to certify that dissertation entitled “ TRADITIONAL HERBAL REMEDIES ”submitted by the candidates Venisha.V(2021SUS060), Lencia.J(2021SUS039), Anna Joency.B (2021SUS027), Divya.C(2021SUS342) of III B.Sc.Computer science, Holy Cross College (Autonomous), Nagercoil, in partial fulfillment of the requirement for the award to the degree of BACHELOR OF COMPUTER SCIENCE is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date: 25/10/2023



Head of the Department

Department of Computer Science

HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMPUTER SCIENCE  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL



Dr. R. REENA ROSE M.Sc., M.Phil., Ph.D.,

Supervisor



## DECLARATION

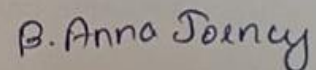
We here by declare that this Project work on Environmental Studies titled “**TRADITIONAL HERBAL REMEDIES**” submitted by us for the degree of **BACHELOR OF COMPUTER SCIENCE** is done under the guidance of **Dr.R.REENA ROSE M.Sc.,M.Phil.,Ph.D.**, Assistant Professor, Department of Computer Science, Holy Cross College(Autonomous), Nagercoil was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

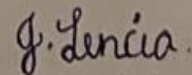
Date: 25/10/2023



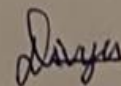
Venisha.V



Anna Joency.B



Lencia.J



Divya.C



## **FASHION'S ECO-IMPACT & SUSTAINABILITY**

Project report on Environmental Studies submitted to Holy Cross College (Autonomous),  
Nagercoil in partial fulfilment of the requirements for the award of degree of

### **BACHELOR OF COMPUTER SCIENCE**

By

<b>ANESHIA P NOBLE</b>	<b>Reg.No.2021SUS339</b>
<b>BHAHIMA MUNAWARA.B</b>	<b>Reg.No.2021SUS031</b>
<b>MARIO DANISH.K</b>	<b>Reg.No.2021SUS042</b>
<b>MARY VERSHINI.V</b>	<b>Reg.No.2021SUS044</b>
<b>SEETHALAXMI. V</b>	<b>Reg.No.2021SUS049</b>

Under the Guidance of

**MRS. C. SHERISHA, M.Sc., M.Phil., B.Ed.**

**Assistant Professor in Department of Computer Science**



**DEPARTMENT OF COMPUTER SCIENCE**

**HOLY CROSS COLLEGE(AUTONOMOUS)**

**RE-ACCREDITED WITH A+ GRADE (CGPA 3.35)**

**(AFFILIATED TO MANONMANIAM SUNDARANAR UNIVERSITY)**

**NAGERCOIL-629 004**

**OCTOBER-2023**

**CERTIFICATE**

This is to certify that the dissertation entitled “FASHION'S ECO-IMPACT & SUSTAINABILITY” submitted by ANESHIA P NOBLE, (Reg.No.2021SUS0339), BHAHIMA MUNAWARA.B (Reg.No.2021SUS031), MARIO DANISH.K (Reg.No.2021SUS042), MARY VERSHINI.V (Reg.No.2021SUS044), SEETHALAXMI.V (Reg.No.2021SUS049) of III B.Sc. Computer Science (Self-Financed), HolyCross College (Autonomous), Nagercoil, in partial fulfilment of the requirement for the award to the degree of **BACHELOR OF COMPUTER SCIENCE** is a bonafide record of the work done by them under my supervision and guidance.

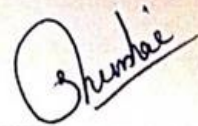
Place: Nagercoil

Date: 25-10-2023



**Head of the Department**

Department of Computer science



**MRS. C. SHERISHA, M.Sc., M.Phil., B.Ed.**

**Supervisor**

HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMPUTER SCIENCE  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL

## DECLARATION

We hereby declare that this project work on Environmental Studies titled "FASHION'S ECO-IMPACT & SUSTAINABILITY" submitted by us for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** is done to the under the guidance of **MRS. C. SHERISHA, M.Sc., M.Phil., B.Ed.,** Department of Computer Science, Holy Cross College (Autonomous), Nagercoil was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associateship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 25-10-2023

*Aneshia*

**ANESHIA P NOBLE**

*B. Bhahima Munawara*

**BHAHIMA MUNAWARA.B**

*Mario Danish, K*

**MARIO DANISH.K**

*V. Mary Vershini*

**MARY VERSHINI.V**

*Seethalaxmi V*

**SEETHALAXMI.V**

# MARINE PLASTIC POLLUTION

Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil in partial fulfillment of the requirements for the award of

## BACHELOR OF COMPUTER SCIENCE

Submitted By

Ashpin.S

Reg. No. 2021SUS030

Cithieeswari.S

Reg. No. 2021SUS032

Manju.K

Reg. No. 2021SUS040

Shiny.S

Reg. No. 2021SUS050

Suganya.R

Reg. No. 2021SUS055

Under the guidance of

Mrs. C. SHERISHA, M.Sc., M.Phil, B.Ed.,

Assistant Professor in department of Computer Science(Self Financed)



DEPARTMENT OF COMPUTER SCIENCE (SELF FINANCED)

HOLY CROSS COLLEGE (AUTONOMOUS)

RE-ACCREDITED WITH A+ GRADE (CGPA3.35)

(AFFILIATED TO MANONMANIAN SUNDARANAR UNIVERSITY)

NAGERCOIL-629 004

OCTOBER-2023

**CERTIFICATE**

This is to certify that dissertation entitled “ **MARINE PLASTIC POLLUTION** ” submitted by the candidates **Ashpin.S (RegNo:2021SUS030), Cithiceswari.S (RegNo:2021SUS032), Manju.K (RegNo:2021SUS040), Shiny.S (RegNo:2021SUS051), Suganya.R (RegNo:2021SUS055)** of III B.Sc.computer science (Self-Financed), Holy Cross College (Autonomous), Nagercoil, in partial fulfillment of the requirement for the award to the degree of **BACHELOR OF COMPUTER SCIENCE** is a bonafide record of the work done by them under my supervision and guidance.



**Head of the Department**  
Computer Science(S.F)



**Mrs. C. SHERISHA, M.Sc., M.Phil., B.Ed.,**  
supervisor

**HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMPUTER SCIENCE  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL**



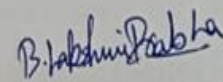
DECLARATION

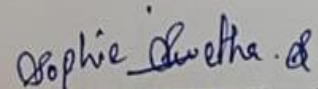
We hereby declare that this project work on Environmental Studies titled "ECOTOURISM DEVELOPMENT IN KANYAKUMARI DISTRICT" submitted by us for the degree of BACHELOR OF SCIENCE IN COMPUTER SCIENCE is done to the under the guidance of MRS. C. SHERISHA, M.Sc., M.Phil., B. Ed Department of Computer Science, Holy Cross College (Autonomous), Nagercoil was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associateship or fellowship of any other University or Institution.

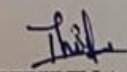
Place: Nagercoil

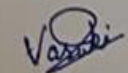
Date: 31.10.2023

  
ABINAYA. J

  
LAKSHMI PRABHA. B

  
SOPHIE SWETHA. S

  
THIVYA LEKSHMI. P

  
VASUKI. A.M

  
AROCKIYA DIJOLIN. R

**DEPARTMENT OF ENGLISH**

**PROJECT REPORT**

**DEFORESTATION IN KANYAKUMARI DISTRICT**

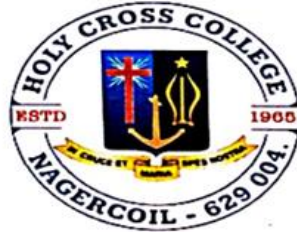
A report submitted in partial fulfilment of the requirements for the Award of Degree of  
**BACHELOR OF ARTS**

Submitted by

<b>Name</b>	<b>Reg.No.</b>
Suhasini K.	2021AUE239
Sumitha T.M.	2021AUE240
Denismobi A.	2021AUE423
Jeswill Frankline B.	2021AUE424
Toniya A.	2021AUE425
Anto Caroline E.	2021AUE447
Jefnee A.	2022AUE427

Under the guidance of

Ms.J.S.Amlin Beatrice, M.A., PGDELT., M.Phil.



**PG and Research Department of English**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A+ Grade (CCPA3.35- Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

November, 2023

*Steffi K.B*  
External Examiner



## DECLARATION

This project entitled Deforestation in Kanyakumari district is our original and independent work, submitted to Holy Cross College (Autonomous), Nagercoil (Manonmaniam Sundaranar University) in partial fulfillment of the requirements for the B.A. Degree in English Literature. We hereby declare that the facts are genuine and not based on any other research work.

Name	Reg.No.	Signature
Suhasini K.	2021AUE239	<i>suhasini.K</i>
Sumitha T.M.	2021AUE240	<i>Sumitha.TM</i>
Denismobi A.	2021AUE423	<i>Denismobi.A.</i>
Jeswill Frankline B.	2021AUE424	<i>Jeswill Frankline.</i>
Toniya A.	2021AUE425	<i>A.Toniya</i>
Anto Caroline E.	2021AUE447	<i>E.Anto Caroline</i>
Jefnee A.	2022AUE427	<i>Jefnee.</i>

PLACE: Nagercoil

DATE: November 2023





**CERTIFICATE**

This is to certify that the project entitled as Deforestation in Kanyakumari district submitted by Suhasini K., Sumitha T.M., Denismobi A., Jeswill Frankline B., Toniya A., Anto Caroline E., Jefnee A., is a report work done during 2023 under the supervision and guidance of Ms. Amlin Beatrice and that the project has not previously formed its basis for the award to the candidate of any degree, diploma, fellowship or any other similar title.

I also certify that this project represents complete independent work on the part of the candidates.

PLACE: Nagercoil

DATE: November 2023



**Head of the Department**

**DR. ALBY GRACE, M.A., M.Phil., Ph.D**  
(Ms. Alby Grace)  
**HEAD OF THE DEPARTMENT**  
**PG & RESEARCH DEPT. OF ENGLISH**  
**HOLY CROSS COLLEGE (AUTONOMOUS)**  
**NAGERCOIL - 629 004**



**Guide**

**(Ms. J.S. Amlin Beatrice)**

## ACKNOWLEDGEMENT

We own our deep gratitude to God Almighty for His grace and blessings, which helped us to complete this project.

We are grateful to our Principal Dr. Sr.S.Sahayaselvi, M.com., M.Phil., Ph.D., NET., PGDCAB., for providing this opportunity to undertake our project.

With deep sense of gratitude, we thank Ms.J.S. Amlin Beatrice, M.A., PGDELT., M.Phil. for encouraging us to work on this topic and for giving us proper guidance to complete the work in time.

We own our gratitude to Ms.Alby Grace, M.A., M.Phil., Ph.D. Head of the Department of English of Holy Cross College (Autonomous) for giving us her encouragement and proper guidance to finish our goal in time.

We are thankful to our class teacher Ms.C.Nesavathy, M.A., M.A (Ling.), M.Phil., NET, SET for her constant encouragement and support.

We extend our gratitude to our parents who constantly encouraged us to go ahead with confidence in this academic venture.

We wish to place on record the joyful memories we are going to cherish regarding the support received from our friends and members of our families.



**PROJECT REPORT**  
**VOLTE-FACE IN CLIMATE WITHIN THE**  
**BOUNDS OF KANIYAKUMARI**

*A report submitted in partial fulfillment of the requirements for the Award of the Degree of*

**BACHELOR OF ARTS**

Submitted by

<b>Name</b>	<b>Reg. No</b>
Kiruthitha R.C.	2021AUE215
Kowski Sharon Dhas C.A.	2021AUE216
Leni E.	2021AUE217
Lijma Joann	2021AUE218
Megala S.P.	2021AUE219
Michael Anto Jeslie C.	2021AUE220
Michael Reshma A.	2021AUE221
Mobisha Keni C.	2021AUE222

Under the guidance of

**Ms. Amlin Beatrice J.S., M.A., PGDELT., M.Phil.**



**PG & RESEARCH DEPARTMENT OF ENGLISH**  
**HOLY CROSS COLLEGE (AUTONOMOUS),**  
**NAGERCOIL**

Accredited with A+ Grade (CGPA 3.35 – IV Cycle) by NAAC  
Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**NOVEMBER 2023**

*Steffi. K.B*  
External Examiner

## CERTIFICATE

This is to certify that the project entitled *Volte-Face in Climate within the Bounds of Kanyakumari* submitted by Kiruthitha R.C., Kowski Sharon Dhas C.A., Leni E., Lijma Joann, Megala S.P., Michael Anto Jeslie C., Michael Reshma A. and Mobisha Keni C. is a research work done during 2023 under the supervision and guidance of Ms. Amlin Beatrice and that the project has not previously formed its basis for the award to the candidate of any degree, diploma, fellowship or any other similar title.

I also certify that this project represents complete independent work on the part of the candidates.

PLACE: Nagercoil

DATE: November 2023



Head of the Department

Dr. ALBY GRACE, M.A., M.Phil., Ph.D.  
(Dr. Alby Grace)  
HEAD OF THE DEPARTMENT  
PG & RESEARCH DEPT. OF ENGLISH  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629 004










Guide

(Ms. Amlin Beatrice)

## DECLARATION

This project entitled *Volte-Face in Climate within the Bounds of Kanyakumari* is our original and independent work, submitted to Holy Cross College (Autonomous), Nagercoil [Manonmaniam Sundaranar University] in partial fulfillment of the requirements for the B.A. Degree in English Literature. We hereby declare that the facts are genuine and not based on any other research work.

Name	Reg. No	Signature
Kiruthitha R.C.	2021AUE215	
Kowski Sharon Dhas C.A.	2021AUE216	
Leni E.	2021AUE217	
Lijma Joann	2021AUE218	
Megala S.P.	2021AUE219	
Michael Anto Jeslie C.	2021AUE220	
Michael Reshma A.	2021AUE221	A. Michael Reshma
Mobisha Keni C.	2021AUE222	

PLACE: Nagercoil

DATE : November 2023

## ACKNOWLEDGEMENT

We owe our deep gratitude to God Almighty for His grace and blessings, which helped us to complete this project.

We are grateful to our Principal Dr. Sr. S. Sahayaselvi, M.Com., M.Phil., Ph.D., NET, PGDCAB., for providing this opportunity to undertake our project.

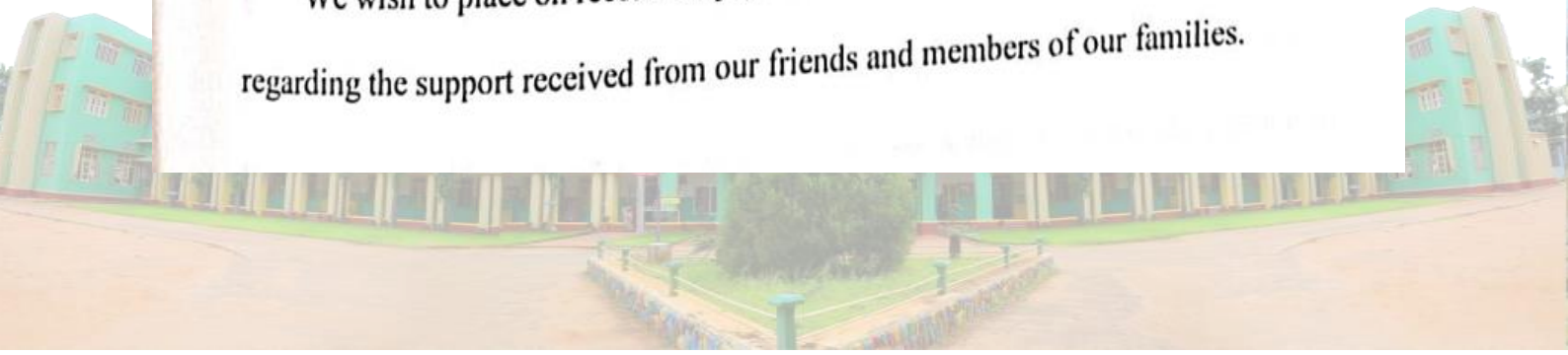
With deep sense of gratitude, we thank Ms. J.S. Amlin Beatrice, M.A., PGDELT., M.Phil. for encouraging us to work on this topic and for giving us proper guidance to complete the work in time.

We owe our gratitude to Dr. Alby Grace, M.A., M.Phil., Ph.D. Head of the Department of English of Holy Cross College (Autonomous) for giving us her encouragement and proper guidance to finish our goal in time.

We are thankful to our class teacher Ms. C. Nesavathy, M.A., M.A. (Ling.), M.Phil., NET , SET for her constant encouragement and support.

We extend our gratitude to our parents who constantly encouraged us to go ahead with confidence in this academic venture.

We wish to place on record the joyful memories we are going to cherish regarding the support received from our friends and members of our families.



**PROJECT REPORT**

**DRAINAGE SYSTEM AND LAND POLLUTION**

A report submitted in partial fulfilment of the requirements for the Award  
of Degree of

**BACHELOR OF ARTS**

Submitted by

Name	Register No.
Nitharshana A.	2021AUE224
Oskar Caroline J.C.	2021AUE225
Rakshana V.	2021AUE226
Rini Mercy R.	2021AUE228
Sahaya Prinisha P.	2021AUE229
Shahana D'costa H.	2021AUE230
Shalomin Lovelina R.	2021AUE231

Under the guidance of

Ms. J.S. Amlin Beatrice M.A., PGDELT., M.Phil.



PG and Research Department of English

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A+ Grade (CCPA 3.35 - Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli.

November, 2023

*Steffi K.B*  
External Examiner

## CERTIFICATE

This is to certify that the project entitled as Drainage System and Land Pollution submitted by Nitharshana A., Oskar Caroline J.C., Rakshana V., Rini Mercy R., Sahaya Prinisha P., Shahana D'Costa. H., Shalomin Lovelina R., is a report work done during 2023 under the supervision and guidance of Ms. Amlin beatrice and that the project has not previously formed its basis for the award to the candidate of any degree, diploma, fellowship or any other similar title.

I also certify that this project represents complete independent work on the part of the candidates.

PLACE : Nagercoil

DATE: November 2023



Head of the Department

Dr. ALBY GRACE, M.A., M.Phil., Ph.D.  
(Dr. Alby Grace)  
HEAD OF THE DEPARTMENT  
PG & RESEARCH DEPT. OF ENGLISH  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629 004



Guide

(Ms. Amlin Beatrice)



## CERTIFICATE

This is to certify that the project entitled as Drainage System and Land Pollution submitted by Nitharshana A., Oskar Caroline J.C., Rakshana V., Rini Mercy R., Sahaya Prinisha P., Shahana D'Costa. H., Shalomin Lovelina R., is a report work done during 2023 under the supervision and guidance of Ms. Amlin beatrice and that the project has not previously formed its basis for the award to the candidate of any degree, diploma, fellowship or any other similar title.

I also certify that this project represents complete independent work on the part of the candidates.

PLACE : Nagercoil

DATE: November 2023

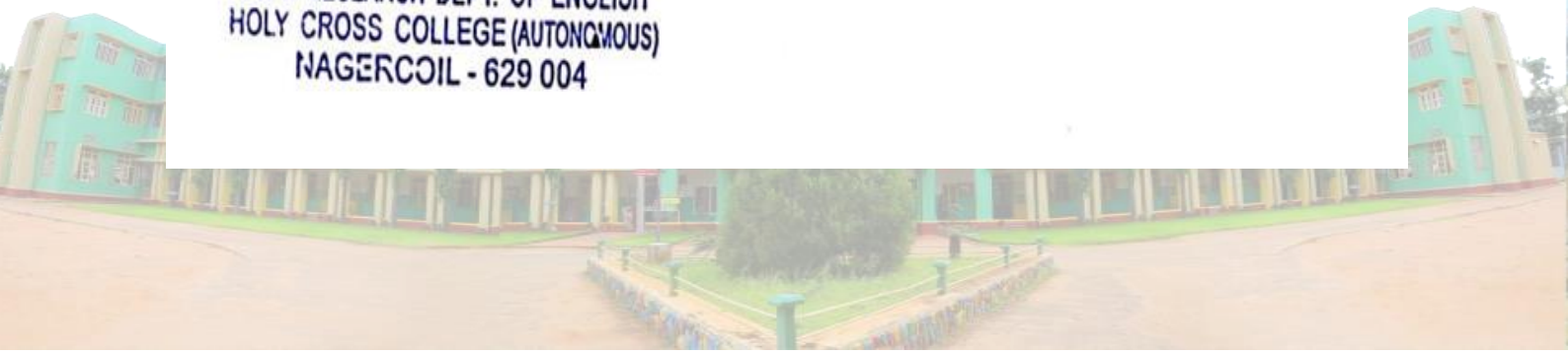


Head of the Department

**DR. ALBY GRACE**, M.A., M.Phil., Ph.D.  
(Dr. Alby Grace)  
HEAD OF THE DEPARTMENT  
PG & RESEARCH DEPT. OF ENGLISH  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629 004



(Ms. Amlin Beatrice)



**DECLARATION**

This project entitled Drainage system and pollution is our original and independent work, submitted to Holy Cross College (Autonomous), Nagercoil [Manonmaniam Sundaranar University] in partial fulfilment of the requirements for the B.A. Degree in English Literature. We hereby declare that the facts are genuine and not based on any other research work.

Name	Reg. No	Signature
Nitharshana A.	2021AUE224	<u>Nitharshana A.</u>
Oskar Caroline J.C.	2021AUE225	<u>J. C. Oskar Caroline</u>
Rakshana V.	2021AUE226	<u>V. Rakshana</u>
Rini Mercy R.	2021AUE228	<u>Rini Mercy</u>
SahayaPrinisha P.	2021AUE229	<u>Prinisha P.</u>
Shahana D Costa H.	2021AUE230	<u>Shahana D Costa H.</u>
Shalomin Lovelina R.	2021AUE231	<u>R. Shalomin Lovelina</u>

PLACE : Nagercoil

DATE : November 2023



## ACKNOWLEDGEMENT

We owe our deep gratitude to God Almighty for His grace and blessings, which helped us to complete this project.

We are grateful to our Principal Dr. Sr. S. Sahaya Selvi, M.Com., M.Phil., Ph.D., NET, PGDCAB., for providing this opportunity to undertake our project.

With deep sense of gratitude, we thank Ms. J.S. Amlin Beatrice, M.A., PGDELT., M.Phil. for encouraging us to work on this topic and for giving us proper guidance to complete the work in time.

We owe our gratitude to Ms. Alby Grace, M.A., M.Phil., Ph.D. Head of the Department of English of Holy Cross College (Autonomous) for giving us her encouragement and proper guidance to finish our goal in time.

We are thankful to our class teacher Ms. C. Nesavathy, M.A.(Ling.), M.Phil., NET, SET for her constant encouragement and support.

We extend our gratitude to our parents who constantly encouraged us to go ahead with confidence in this academic venture.

We wish to place on record the joyful memories we are going to cherish regarding the support received from our friends and members of our families.



**PROJECT REPORT FOR ENVIRONMENTAL STUDIES  
COMMERCIAL CROP PRODUCTION IN A NURSERY**

*A report submitted in partial fulfilment of the requirements for the award of Degree  
of*

**BACHELOR OF ARTS**

Submitted by

Name	Reg. No.
Abisha W.M.	2021AUE180
Adiksha Sherlin Nissi G.	2021AUE181
Akshallya A.S.	2021AUE182
Akshya R.	2021AUE183
Amala V. Anchana	2021AUE185
Amy Majella J.	2021AUE188
Angelin Suruthi T.	2021AUE189
Antony Clactia K.	2021AUE190

Under the guidance of

Ms. J.S. Amlin Beatrice, M.A., PGDELT., M.Phil.



**PG & RESEARCH DEPARTMENT OF ENGLISH  
HOLY CROS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A+ Grade (CGPA 3.35- IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

NOVEMBER 2023

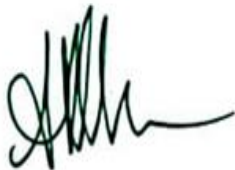
**Certificate**

This is to certify that the project entitled as Commercial Crop Production in a Nursery submitted by Abisha W.M., Adiksha Sherlin Nissi G., Akshallya A.S., Akshya R., Amala V. Anchana, Amy Majella J., Angelin Suruthi T., Antony Clactia K. is a report work done during 2023 under the supervision and guidance of Ms. Amlin Beatrice and that the project has not previously formed its basis for the award to the candidate of any degree, diploma, fellowship or any other similar title.

I also certify that this project represents complete independent work on the part of the candidates.

PLACE: Nagercoil

DATE: November 2023



**Head of the Department**

Dr. ALBY GRACE, M.A., M.Phil., Ph.D.  
(HEAD OF THE DEPARTMENT)  
PG & RESEARCH DEPT. OF ENGLISH  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629 004



(Ms. J.S. Amlin Beatrice)

**Declaration**

This project entitled Commercial Crop Production in a Nursery is our original and independent work, submitted to Holy Cross College (Autonomous), Nagercoil [Manonmaniam Sundaranar University] in partial fulfilment of the requirements for the B.A. Degree in English Literature. We hereby declare that the facts are genuine and not based on any other research work.

Name	Reg. No	Signature
Abisha W.M.	2021AUE180	<i>Abisha</i>
Adiksha Sherlin Nissi G.	2021AUE181	<i>Ady</i>
Akshallya A.S.	2021AUE182	<i>Akshallya</i>
Akshya R.	2021AUE183	<i>Akshya R.</i>
Amala V. Anchana	2021AUE185	<i>Amala V.</i>
Amy Majella J.	2021AUE188	<i>Amy</i>
Angelin Suruthi T.	2021AUE189	<i>Angelin</i>
Antony Clactia K.	2021AUE190	<i>Antony Clactia K.</i>

PLACE: Nagercoil

DATE: November 2023



## Acknowledgement

Words are not enough to pour out our feelings and acknowledge everyone who made this work a successful one.

We thank the God Almighty, who showered his blessings on us to carry out this project successfully.

From the bottom of our hearts, we thank Ms. J.S Amlin Beatrice our guide, for her valuable guidance and support. She constantly supervised this project and made this work a successful one. She gave us confidence, encouragement and support for the completion of the project.

We also thank our Head of the Department, Dr. Alby Grace, and all other faculty members of our department for their share in directing us towards our goal.

We owe our gratitude to our principal Dr. Sr. Sahaya Selvi for her encouragement and support.

We also express our sincere gratitude towards our family members and friends for their patience, love, and encouragement.



**DEPARTMENT OF ENGLISH (SF)**

**DEFORESTATION IN PANAGUDI**

*Project report on Environmental Studies*

*Submitted to Holy Cross College (Autonomous), Nagercoil*

*Affiliated to Manonmaniam Sundaranar University in Partial fulfillment  
of the requirements for the award of the Degree of Bachelor of Arts*

**SUBMITTED BY**

<b>NAME</b>	<b>REG NO</b>
ABINAYA MOL.C	2021SUE061
ABINAYA.C	2021SUE062
AFRIN KARISHMA.G	2021SUE063
AJISHA.R.C	2021SUE064
ANGEL THISHANI.S	2021SUE065
ASAN HARSHA.S	2021SUE069
ASHMA.M	2021SUE070
SELVA MARY SUFRILLA.A	2021SUE091

**UNDER THE GUIDANCE OF**

**Mrs. NIMESHA.A M.A., MPHIL**



**DEPARTMENT OF ENGLISH (SF)**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

**Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC**

**Affiliated to Manonmaniam Sundaranar University, Tirunelveli**

**OCTOBER 2023**



A. Nimesha,  
Assistant Professor,  
Department of English SF,  
Holy Cross College (Autonomous),  
Nagercoil - 629 004.

**CERTIFICATE**

This is to certify that the project work on Environmental Studies titled  
“Deforestation in Panagudi” submitted by C. Abinaya Mol, C. Abinaya, G. Afrin  
Karishma, R.C Ajisha, S. Angel Thishani, S. Asan Harsha, Ashma M and A. Selva  
Mary Sufrilla of III BA English SF, Holy Cross College (Autonomous) in partial  
fulfillment of the requirements for the award of the Degree of Bachelor of Arts is a  
bonafide record of the work done by them under my supervision and guidance.

PLACE: Nagercoil

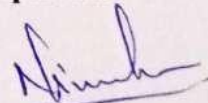
DATE: October 2023

**Head of the Department**



(Mrs. M. Maria Helen Janoba)  
Department of English (S.F.)  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

**Supervisor**



(Mrs. A. Nimesha)

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "Deforestation in Panagudi" submitted by us for the degree of Bachelor of Arts done under the guidance of Mrs. A. Nimesha, Assistant Professor, Department of English SF, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

NAME	REG NO	SIGNATURE
ABINAYA MOL. C	2021SUE061	C. Abinaya Mol
ABINAYA. C	2021SUE062	Abinaya. v
AFRIN KARISHMA. G	2021SUE063	G. Afrin Karishma
AJISHA. R.C	2021SUE064	Ajisha.
ANGEL THISHANI. S	2021SUE065	S. Angel Thishani
ASAN HARSHA. S	2021SUE069	S. Asan Harsha
ASHMA. M	2021SUE070	Ashma. M
SELVA MARY SUFRILLA. A	2021SUE091	A. Sufrilla.

PLACE: Nagercoil

DATE: October 2023

***POLLUTION IN KANYAKUMARI***  
*Project report on Environmental Studies*  
*Submitted to Holy Cross College (Autonomous), Nagercoil*  
*Affiliated to Manonmaniam Sundaranar University in Partial fulfillment*  
*of the requirements for the award of the Degree of Bachelor of Arts*

SUBMITTED BY

NAME	REG NO
Rajeswari . K	2021SUE087
Benisha Joe J.G	2021SUE072
Viji Mol . S	2021SUE096
Kowsalya . M	2021SUE081
Jerisha . J	2021SUE078
Mary Jarshini . L	2021SUE083
Suvedha .R	2021SUE094
Subitha . G	2021SUE409

UNDER THE GUIDANCE OF  
**Mrs. NIMESHA.A M.A., MPHIL**



**DEPARTMENT OF ENGLISH (SF)**  
**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

**Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC**

**Affiliated to Manonmaniam Sundaranar University, Tirunelveli**

**OCTOBER 2023**

A. Nimesha,  
Assistant Professor,  
Department of English SF,  
Holy Cross College (Autonomous),  
Nagercoil - 629 004.

**CERTIFICATE**

This is to certify that the project work on Environmental Studies titled "Pollution in Kanyakumari" submitted by Rajeswari. K, Benisha Joe J.G, Viji Mol.S, Kowsalya M, Jerisha J, Mary Jarshini L, Suvedha R and Subitha G of III BA English SF, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts is a bonafide record of the work done by them under my supervision and guidance.

PLACE: Nagercoil

DATE: October 2023

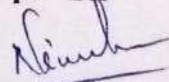
**Head of the Department**



**(Mrs. M. Maria Helen Janoba)**

Department of English (S.F.)  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

**Supervisor**



**(Mrs. A. Nimesha)**

### DECLARATION

We hereby declare that the project work on Environmental Studies titled "Pollution in Kanyakumari" submitted by us for the degree of Bachelor of Arts done under the guidance of Mrs. A. Nimesha, Assistant Professor, Department of English SF, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

NAME	REG NO	SIGNATURE
Rajeswari . K	2021SUE087	Rajeswari . K
Benisha Joe J.G	2021SUE072	Benisha Joe J.G.
Viji Mol . S	2021SUE096	Viji Mol . S
Kowsalya . M	2021SUE081	Kowsalya M
Jerisha . J	2021SUE078	Jerisha . J
Mary Jarshini . L	2021SUE083	Mary Jarshini . L
Suvedha .R	2021SUE094	Suvedha . R
Subitha . G	2021SUE409	Subitha

PLACE: Nagercoil

DATE: October 2023

**BIO-WASTE MANAGEMENT IN NAGERCOIL LOCALITY**

*Project report on Environmental Studies  
Submitted to Holy Cross College (Autonomous), Nagercoil  
Affiliated to Manonmaniam Sundaranar University in Partial fulfillment  
of the requirements for the award of the Degree of Bachelor of Arts*

**SUBMITTED BY**

<b>NAME</b>	<b>REG NO</b>
AROCKIYA SWEETNE.S	2021SUE068
KEERTHANA.R	2021SUE080
ROSME ANGELA.S	2021SUE089
SOWBARNIKA.T	2021SUE093
VINITHA.S	2021SUE097
MONIKA.N	2021SUE346
REXINI.J.M	2021SUE401
SHIMARNA.F	2021SUE411

**UNDER THE GUIDANCE OF  
Mrs. NIMESHA.A M.A.,MPHIL**



**DEPARTMENT OF ENGLISH (SF)  
HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

**Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC**

**Affiliated to Manonmaniam Sundaranar University, Tirunelveli**

**OCTOBER 2023**

**A.Nimesha,**  
**Assistant Professor,**  
**Department of English SF,**  
**Holy Cross College (Autonomous),**  
**Nagercoil - 629 004.**

**CERTIFICATE**

This is to certify that the project work on Environmental Studies titled “Bio-Waste Management in Nagercoil Locality” submitted by S.Arockiya Sweetne, R. Keerthana, S.Rosmeangela, T.Sowbarnika, S,Vinitha, N.Monika, J.M.Rexini and F.Shimarna of III BA English SF, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts is a bonafide record of the work done by them under my supervision and guidance.

PLACE: Nagercoil

DATE: October 2023

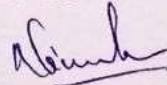
**Head of the Department**



**(Mrs. M. Maria Helen Janoba)**

Department of English (S-F)  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

**Supervisor**



**(Mrs. A. Nimesha)**

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "Bio-Waste Management in Nagercoil Locality" submitted by us for the degree of Bachelor of Arts done under the guidance of Mrs. A. Nimesha, Assistant Professor, Department of English SF, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

NAME	REG NO	SIGNATURE
AROCIYA SWEETNE. S	2021SUE068	Arociya Sweetne S
KEERTHANA. R	2021SUE080	R. Keerthana
ROSME ANGELA. S	2021SUE089	S. Rosme Angela
SOWBARNIKA. T	2021SUE093	T.K. Sowbar
VINITHA. S	2021SUE097	V. Vinitha
MONIKA. N	2021SUE346	N. Monika
REXINI. J.M	2021SUE401	J.M. Rexini
SHIMARNA. F	2021SUE411	F. Shimarna

PLACE: Nagercoil

DATE: October 2023



**WATER POLLUTION IN KANYAKUMARI**

*Project report on Environmental Studies  
Submitted to Holy Cross College (Autonomous), Nagercoil  
Affiliated to Manonmaniam Sundaranar University in Partial fulfillment  
of the requirements for the award of the Degree of Bachelor of Arts*

**SUBMITTED BY**

<b>NAME</b>	<b>REG NO</b>
Syedali Shameera	2021SUE095
Noorul Arshiya	2021SUE085
AnuPriya	2021SUE385
Narayani	202 ISUE347
Avanthika	2021SUE370
Jain Shylu	2021SUE128
Anish Malika	2021SUE066
Jeba Ini Hein	2021SUE075

**UNDER THE GUIDANCE OF**

**Mrs. NIMESHA.A M.A., MPhil**



**DEPARTMENT OF ENGLISH (SF)**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

**Accredited with A+ Grade (CGPA 3.35 - IV Cycle) by NAAC**

**Affiliated to Manonmaniam Sundaranar University, Tirunelveli**

**OCTOBER 2023**

A. Nimesha,  
Assistant Professor,  
Department of English SF,  
Holy Cross College (Autonomous),  
Nagercoil - 629 004.

**CERTIFICATE**

This is to certify that the project work on Environmental Studies titled "Water Pollution in Kanyakumari" submitted by Syedali Shameera, Noorul Arshiya, Anu Priya, Narayani, Avanthika, Jain Shylu and Anish Malika of III BA English SF, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts is a bonafide record of the work done by them under my supervision and guidance.

PLACE: Nagercoil

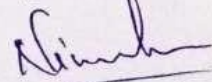
DATE: October 2023

**Head of the Department**



(Mrs. M. Maria Helen Janoba)  
Department of English SF,  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.


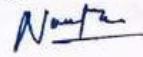
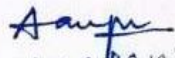
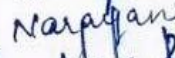
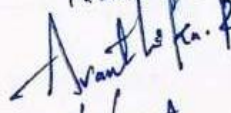
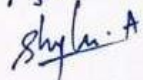


**Supervisor**



(Mrs. A. Nimesha)

**DECLARATION**

We hereby declare that the project work on Environmental Studies titled "Water Pollution in Kanyakumari" submitted by us for the degree of Bachelor of Arts done under the guidance of Mrs. A. Nimesha, Assistant Professor, Department of English SF, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

NAME	REG NO	SIGNATURE
Syedali Shameera	2021SUE095	
Noorul Arshiya	2021SUE085	
AnuPriya	2021SUE385	
Narayani	202 ISUE347	
Avanthika	2021SUE370	
Jain Shylu	2021SUE128	
Anish Malika	2021SUE066	
Jeba Ini Hein	2021SUE075	

PLACE: Nagercoil

DATE: October 2023

**WASTE MANAGEMENT IN HOLY CROSS COLLEGE,  
NAGERCOIL**

*Project report on Environmental Studies  
Submitted to Holy Cross College (Autonomous), Nagercoil  
Affiliated to Manonmaniam Sundaranar University in Partial fulfillment  
of the requirements for the award of the Degree of Bachelor of Arts*

**SUBMITTED BY**

<b>NAME</b>	<b>REG NO</b>
AROCKIA MINAVIN FESTINA R	2021SUE067
BERINSHELMIKA S	2021SUE073
BERLIN GEONAS U	2021SUE074
JEEVANA I	2021SUE077
JUDITNURSIUSE K	2021SUE079
RITHANYA X	2021SUE088
SAHAYAMANCY STENO B	2021SUE090
SAHAYASURIYA I	2021SUE371

**UNDER THE GUIDANCE OF**

**Mrs. NIMESHA.A M.A., MPHIL**



**DEPARTMENT OF ENGLISH (SF)**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

**Accredited with A+ Grade (CGPA 3.35 - IV Cycle) by NAAC**

**Affiliated to Manonmaniam Sundaranar University, Tirunelveli**

**OCTOBER 2023**

A. Nimesha,  
Assistant Professor,  
Department of English SF,  
Holy Cross College (Autonomous),  
Nagercoil - 629 004.

**CERTIFICATE**

This is to certify that the project work on Environmental Studies titled "Waste Management in Holy Cross College , Nagercoil" submitted by Arockia Minavin Festina R, Berin Shelmika S, Berlin Geona S U, Jeevana I, Judit Nursiuse K, Rithanya X, Sahaya Mancy Steno B, and Sahaya Suriya I of III BA English SF, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts is a bonafide record of the work done by them under my supervision and guidance.

PLACE: Nagercoil

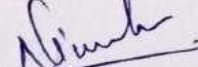
DATE: October 2023

**Head of the Department**



(Mrs. M. Maria Helen Janoba)  
Department of English (S.F.)  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

**Supervisor**



(Mrs. A. Nimesha)

**DECLARATION**

We hereby declare that the project work on Environmental Studies titled "Waste Management in Holy Cross College , Nagercoil" submitted by us for the degree of Bachelor of Arts done under the guidance of Mrs. A. Nimesha, Assistant Professor, Department of English SF, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

NAME	REG NO	SIGNATURE
AROCKIA MINAVIN FESTINA R	2021SUE067	<i>[Signature]</i>
BERINSHELMIKA S	2021SUE073	<i>Berlin Shalmika</i>
BERLIN GEONAS U	2021SUE074	<i>Berlin Geonasa</i>
JEEVANA I	2021SUE077	<i>Jeevana I</i>
JUDITNURSIUSE K	2021SUE079	<i>Judit</i>
RITHANYA X	2021SUE088	<i>Rithanya</i>
SAHAYAMANCY STENO B	2021SUE090	<i>Mancy</i>
SAHAYASURIYA I	2021SUE371	<i>Surya I</i>

PLACE: Nagercoil

DATE: October 2023

DEPARTMENT OF TAMIL (S.F)

இளங்கலை முன்றாமாண்டு தமிழ் இலக்கியம்  
சுற்றுச் சூழல் கல்வி

ஹோலிகிறாஸ் கல்லூரி வளாக மூலிகைகள்  
திட்டக்கட்டுரை

கட்டுரையாளர்கள்	பதிவு எண்
சு.ஆன்றோ கனி	2021SUT098
ஜெ.இன்பென்டா ரோஷ்னி	2021SUT099
ம.பிரிஜிட்டா	2021SUT100
நா.சப்ரின் நிஷா	2021SUT101
ச.சரண்பா	2021SUT102
ச.உதயா	2021SUT103
செ.அபிநயா	2021SUT416

மேற்பார்வையாளர்

முனைவர் ம.மேபல் எடல்குயின்



தமிழ்த்துறை (சுயநிதி)

ஹோலிகிறாஸ் கல்லூரி (தன்னாட்சி)

நாகர்கோவில் - 629004.

அக்டோபர் - 2023

இயல் - 1

திட்டக்கட்டுரை அறிமுகம்

- 1.1. திட்ட முன்னுரை
- 1.2. திட்டக் கட்டுரை நோக்கம்
- 1.3. திட்டக் கட்டுரை தலைப்பு
- 1.4. தேர்ந்தெடுக்கக் காரணம்
- 1.5. திட்ட அணுகுமுறை
- 1.6. திட்டப்பகுப்பு
- 1.7. முதன்மை ஆதாரம்
- 1.8. துணைமை ஆதாரங்கள்
- 1.9. திட்டக்கட்டுரை நிறைவுரை



## நன்றியுரை

'ஹோலிகிராஸ் கல்லூரி வளாக மூலிகைகள்' என்னும் தலைப்பில் எழுதப்பட்ட இத்திட்டக்கட்டுரை சிறந்த முறையில் நிறைவு பெற அருள்புரிந்த எல்லாம் வல்ல இறைவனுக்கு முதலில் எங்களது நன்றியைக் காணிக்கையாக்குகின்றோம்.

சுற்றுச்சூழல் கல்விக்கான திட்டப்பணியை எங்களுக்கு அறிமுகம் செய்த ஹோலிகிராஸ் கல்லூரிக்கு நன்றி.

இந்தத் திட்ட ஏட்டினை உருவாக்க எங்களுக்கு ஆக்கமும், ஊக்கமும் அருளிய தமிழ்த்துறைத்தலைவர் முனைவர் சி.ஆன்சிமோள் அவர்களுக்கும் மற்றும் அனைத்துப் பேராசிரியர்களுக்கும் மனமாந்த நன்றியைத் தெரிவித்துக்கொள்கிறோம்.

இத்திட்ட ஏடு நல்ல முறையில் நிறைவுபெற உறுதுணையாய் இருந்து ஆய்வு செய்யும் முறையினைப் பொறுப்பாக விளக்கி வழிநடத்திய எங்கள் மதிப்பிற்குரிய பேராசிரியர் முனைவர் ம.மேல் எடல்குயின் அவர்களுக்கும் நண்பர்களுக்கும் நன்றியைத் தெரிவித்துக் கொள்கிறோம்.

இத்திட்ட ஏட்டினைச் சிறந்த முறையில் தட்டச்சு செய்து தந்த ராகுல் கணினி நிறுவனத்தாருக்கும் நன்றி.

## மேற்பார்வையாளர் சான்றிதழ்

இளங்கலை முன்றாமாண்டு தமிழ் இலக்கியம் சுற்றுச்சூழல் கல்விக்காக 'ஹோலிகிறாஸ் கல்லூரி வளாக மூலிகைகள்' என்னும் தலைப்பில் அமைந்த திட்டக்கட்டுரை க.ஆன்றோ கனி, ஜெ.இன்பென்டா ரோஷ்னி, ம.பிரிஜிட்டா, நா.சப்ரின் நிஷா, ச.சரண்யா, ச.உதயா, செ.அபிநயா ஆகியோர்களால் குழுவாகச் செய்யப்பட்டது என்று சான்றளிக்கிறேன்.

துறைத்தலைவர்  
Department of Tamil  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

  
மேற்பார்வையாளர்

இடம்: நாகர்கோவில்

நாள்: 30/10/2023

**DEPARTMENT OF HISTORY**

**A STUDY ON SOIL EROSION**

Project report on Environmental Studies submitted to Holy Cross College  
(Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in

Partial fulfillment of the requirements for the award of the degree of

**BACHELORS OF ARTS IN HISTORY**

Submitted by

<b>Name of the Students</b>	<b>Register Number</b>
J.Ashika Bright	2021AUH156
A.Nebika Beldezazar	2021AUH159
S.Nithisha	2021AUH160
S.Renuka	2021AUH161

Under the guidance of

Dr. V .Sujin Flower, M.Sc., M.Phil., Ph.D.,

**DEPARTMENT OF MATHEMATICS (AIDED)**



**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL.**

Accredited with A+ Grade (CGPA 3.35 – IV Cycle) by NAAC Affiliated to Manonmaniam  
Sundaranar University, Tirunelveli.

November 2023



Dr. V .Sujin Flower, M. S c., M.Phil. Ph. D.,

Department of Mathematics (Aided)

Holy Cross College (Autonomous), Nagercoil – 629 004

## CERTIFICATE

This is to certify that this project work entitled "A STUDY ON SOIL EROSION" of III B.A. History (Aided), Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelors of Arts in History is a bonafide record of the work done by them under my supervision and guidance.

Submitted by,

**Name of the Students**

**Register Number**

J.Ashika Bright

2021AUH156

A.Nebika Beldezazar

2021AUH159

S.Nithisha

2021AUH160

S.Renuka

2021AUH161

**Place: Nagercoil**

**Date: 25.10.2023**



**Head of Department**

**Dr. I. JALAJA KUMARI**  
Assistant Professor & Head  
Department of History  
Holy Cross College (Autonomous)  
Nagercoil - 629004



**Supervisor**

**Dr. V. SUJIN FLOWER, M.Sc., M.Phil, Ph.D.,**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004



## DECLARATION

We hereby declare that the project work on Environmental Studies titled "A STUDY ON SOIL EROSION" submitted by us for the degree of Bachelor of Arts in History done under the guidance of Dr. V. Sujin Flower M.Sc., M.Phil., Ph.D., Assistant Professor, Department of Mathematics (Aided), Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has been submitted for the award of any other degree, diploma, associate – ship or fellowship of any other University or Institution.

**Place:** Nagercoil

**Date:** 25.10.2023

### Name of the Students

J. Ashika Bright

A. Nebika Beldezazar

S. Nithisha

S. Renuka

### Signature of Students

J. Ashika Bright

A. Nebika Beldezazar.

S. Nithisha

S. Renuka

## A STUDY ON WATER POLLUTION

*Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts in History*

*Submitted by*

<b>Name of the students</b>	<b>Register Number</b>
K. Srimathi	2021AUH163
M. Thanushya	2021AUH164
T. Anto Nisha	2021AUH409
M. Monisha	2021AUH411

*Under the guidance of*

**Dr . J. Befija Minnie M.Sc., B .Ed., M.Phil .,Ph.D.,**

**DEPARTMENT OF MATHEMATICS (AIDED)**



**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL.**

Accredited with A+Grade(CGPA 3.35 - IV Cycle) by NAAC Affiliated to  
Manonmaniam Sundaranar University, Tirunelveli

November 2023

Dr . J. Befija Minnie M.Sc., B .Ed., M.Phil .,Ph.D.

DEPARTMENT OF MATHEMATICS (AIDED)

Holy Cross College (Autonomous),Nagercoil - 629 004.

### CERTIFICATE

This is to certify that the project work on **Environmental Studies** titled **“A STUDY ON WATER POLLUTION** of III B.A History (Aided), Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts in History is a bonafide record of the work done by them under my supervision and guidance.

Submitted by,

**Name of the students**

**Register Number**

K. Srimathi

2021AUH163

M. Thanushya

2021AUH164

T. Anto Nisha

2021AUH409

M. Monisha

2021AUH411

**Place: Nagercoil**

**Date: 25.10.2023**

**Head of Department**

**Dr. I. JALAJA KUMARI**  
Assistant Professor & Head  
Department of History  
Holy Cross College (Autonomous)  
Nagercoil - 629004

**Supervisor**

**Dr. J. BEFIJA MINNIE**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629004

**DECLARATION**

We hereby declare that the project work on Environmental Studies titled "A STUDY ON WATER POLLUTION " submitted by us for the degree of Bachelor of Arts in History done under the guidance of Dr. J. Befija Minnie M.Sc., B .Ed., M.Phil.,Ph.D. DEPARTMENT OF MATHEMATICS (AIDED) Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 25.10.2023

**Name of the students**

**Signature of students**

K. Srimathi

*K. Srimathi*

M. Thanushya

*M. Thanushya*

T. Anto Nish

*Anto Nisha .T*

M. Monisha

*M. Monisha*



# A STUDY ON LAND POLLUTION

*Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil allated to Manonmaniam Sundaranar University in Partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts in History*

*Submitted by*

Name of the students	Register Number
S. Threse Mency	2021AUH412
S. Salome Elna	2021AUH444
T. Bavisha	2021AUH452
J. Jenifer	2021AUH453

*Under the guidance of*

Dr . J. Befija Minnie M.Sc., B .Ed., M.Phil .,Ph.D.  
DEPARTMENT OF MATHEMATICS (AIDED)



**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL.**

Accredited with A+Grade(CGPA 3.35 - IV Cycle) by NAAC Affiliated to  
Manonmaniam Sundaranar University, Tirunelveli

November 2023



Dr. J. Befija Minnie, M.Sc., B.Ed.,  
M.Phil., Ph.D., Department of Mathematics (Aided),  
Holy Cross College (Autonomous), Nagercoil - 629 004,

### CERTIFICATE

This is to certify that the project work on Environmental Studies titled "A STUDY ON LAND POLLUTION" of III B.A History (Aided), Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts in History is a bonafide record of the work done by them under my supervision and guidance.

Submitted by,

Name of the students	Register Number
S. Threse Mercy	2021AUII412
S. Salome Elna	2021AUII444
T. Bavisha	2021AUII452
J. Jenifer	2021AUII453

Place: Nagercoil

Date: 25:10:2023

  
Head of Department  
Supervisor

**Dr. I. JALAJA KUMARI**  
Assistant Professor & Head  
Department of History  
Holy Cross College (Autonomous)  
Nagercoil - 629004

  
**Dr. J. BEFIJA MINNIE**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "A STUDY ON LAND POLLUTION" submitted by us for the degree of Bachelor of Arts in History done under the guidance of Dr . J. Beñija Minnie, M.Sc., B .Ed., M.Phil.,Ph.D, Department of Mathematics (Aided), Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 25.10.2023

### Name of the students

S. Threse Meney

S. Salome Elna

T. Bavisha

J. Jenifer

### Signature of students

S. Threse Meney

S. Salome Elna

T. Bavisha

J. Jenifer

## A STUDY ON AIR POLLUTION

Project report on Environmental Studies submitted to Holy Cross College (Autonomous),  
Nagercoil affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the  
requirements for the award of the Degree of Bachelor of Arts in History

Submitted by

Name of the students	Register Number
E. Vinisha	2021AUH454
W. Evelin Sinuja	2021AUH458
S. Sahaya Mekitha	2021AUH462
T. Sahaya Reshi	2021AUH465

Under the guidance of

**Dr.V.SUJIN FLOWER M.Sc., M.Phil., Ph.D.,**

**Assistant Professor of Mathematics**



**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL.**

Accredited with A+Grade(CGPA 3.35 - IV Cycle) by NAAC Affiliated to Manonmaniam  
Sundaranar University, Tirunelveli

November 2023



Dr. V. SUJIN FLOWER M.Sc., M.Phil., Ph.D.,  
Assistant Professor of Mathematics  
Holy Cross College (Autonomous), Nagercoil - 629 004.

### CERTIFICATE

This is to certify that the project work on Environmental Studies titled "A STUDY ON AIR POLLUTION" of III B.A History (Aided), Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Arts in History is a bonafide record of the work done by them under my supervision and guidance.

Submitted by,

**Name of the students**

E. Vinisha  
W. Evelin Sinuja  
S. Sahaya Mekitha  
T. Sahaya Reshi

**Register Number**

2021AUH454  
2021AUH458  
2021AUH462  
2021AUH465

**Place: Nagercoil**

**Date: 25/10/2023**

  
**Head of Department**  
**Dr. I. JALAJA KUMARI**  
Assistant Professor & Head  
Department of History  
Holy Cross College (Autonomous)  
Nagercoil - 629004

  
**Supervisor**  
**Dr. V. SUJIN FLOWER, M.Sc., M.Phil., Ph.D.,**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "A STUDY ON AIR POLLUTION " submitted by us for the degree of Bachelor of Arts in History done under the guidance of Dr. V.Sujin Flower M.Sc., M.Phil., Ph.D., Assistant Professor of Mathematics, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 25/10/2023

### Name of the students

E. Vinisha

W. Evelin Sinuja

S. Sahaya Mekitha

T. Sahaya Reshi

### Signature of students

E. Vinisha

W. Evelin Sinuja

S. Sahaya Mekitha

T. Sahaya Reshi

**DEPARTMENT OF ECONOMICS**

**A Study on selected Flood Affected in Village**

Project report on environmental studies

**Bachelor of Economics**

Submitted by

<b>Name</b>	<b>Reg.No</b>
R .Kohila	2021AUF170
S. Ponlakshmi	2021AUF172
J. Sahaya Maclin Annie	2021AUF174
V. Swathiga	2021AUF179
J. Sahaya Abitha	2021AUF420

Under the guidance of

**Sr.S.Antin Mary,M.Sc, NET, SET**



**Department of Economic**

**Holy cross college (Autonomous)**

**Nagercoil – 629 004**

**2023-2024**

Sr.Antin Mary , M.Sc,NET,SET

Assistant Professor,

Department of Mathematics,

Holy Cross College(Autonomous)

Nagercoil629004.


### CERTIFICATE

This is Certify that the project report entitled "A Study on Selected Flood Affected in village" is Bonafide record of project work done by , R.Kohila,S.Ponlakshmi,J.Sahaya maclin annie,V.Swathiga,J.Sahaya abitha under my supervision and guidance have submitted is partial fulfillment of the requirement for the degree of Bachelor of economics. It has not formed the basis foe the award of any other degree ,diploma or any title.

Place:Nagercoil

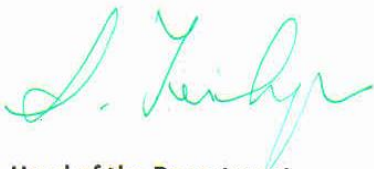
Date: 31-10-2023

Supervisor

  
ANTIN MARY  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

Examiner

Head of the Department

  
Dr. S. JINI SANJANA  
Head of the Department  
Department of Economics  
Holy Cross College (Autonomous)  
Nagercoil.



## DECLARATION

We hereby declare that the project report entitled "A Study of selected flood affected in village" submitted to the Holy Cross College (Autonomous) Nagercoil, for the final year under the graduate study is an original worked down under the guidance of Sr.S.Antin Mary ,M.Sc,NET,SET,Department of Mathematics in Holy Cross College (Autonomous) Nagercoil. It has not formed the basis for the award of any other degree , diploma or any title.

Place: Nagercoil

Date: 31/10/2023

Submitted by

R.Kohila R.Kohila

S.Ponlakshmy S.Ponlakshmi

J.Maclin J.Sahaya maclin annie

V.Swathiga V.Swathiga

J.Sahaya Abitha J.Sahaya abitha



## ACKNOWLEDGEMENT

We bow down before the almighty God and praise him for the blessings he showed upon us, which guided us in taking up this project and gave us the confidence and eligibility to complete it successfully.

We Take this opportunity to thank our principal Dr.S.Sahaya Selvi ,Holy cross college(Autonomous) nagercoil for us this wonderful opportunity to do the project work.We are also graceful to the Head of the department of Economics Dr.S.Jeni Sanjana ,M.A.,M.Phil.,M.B.A.,Ph.D

We express our profound gratitude to Sr.S.Antin Mary,M.Sc.,NET, SET Assistant professor of mathrmatics in Holy cross College (Autonomous),Nagercoil for her genuine guidance,help,comments,excellent suggestions,learned counsel with which we successfully completed this work in a short period of time .Finally we thank all our friends and well-wisher who gave their generous ,valuable suggestions and helped forthe preparation of this project.

R.Kohila

S.Ponlakshmi

J.Sahaya Maclin Annie

V.Swathiga

J.Sahaya Abitha

**STUDY OF A CYCLONE AFFECTED PARUTHIVILAI IN  
KANYAKUMARI**

**Project report on Environment Studies**

**BACHELOR OF ECONOMICS**

**Submitted by**

<b>Name.</b>	<b>Reg.No</b>
<b>A.Bemisha.</b>	<b>2021AUF167</b>
<b>M.Santhiya.</b>	<b>2021AUF175</b>
<b>S.K.Abisha.</b>	<b>2021AUF414</b>
<b>P.Sowmiya.</b>	<b>2021AUF445</b>
<b>D.Dhanu Shakani.</b>	<b>2021AUF445</b>

Under the guidance of

**Sr.S.Antin Mary,M.Sc, NET, SET**

Assistant Professor of Mathematics



**DEPARTMENT OF ECONOMICS  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629004  
2023-2024**

Sr. S. Antin Mary, M.Sc, NET, SET

Assignment Professor,

Department of Mathematics ,

Holy Cross College (Autonomous)

Nagercoil 629004

**CERTIFICATE**

This is to certify that the project report entitled " **Study of a Cyclone Affected Paruthi Vilai in kanyakumari** " is Bonafide record of work done by A.Bemisha, M santhiya, S.K. Abisha, P. Sowmiya, D.Dhanu Shakani under my supervision and guidance have submitted is partial fulfillment of the requirement for the degree of Bachelor of economics .It has not formed the basis for the award of any other degree, diploma or any title.

Place: *Nagercoil*

Date: *31-10-2023*

Supervisor

*SA*  
**ANTIN MARY S**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

*SA*  
Examiner

Head of the Department

*S. Jeni*  
**Dr.S.JENI SANJANA**  
Head of the Department  
Department of Economics  
Holy Cross College (Autonomous)  
Nagercoil

## DECLARATION

We hereby declare that the project report entitled " **Study of a Cyclone affected Paruthivilai in Kanyakumari** " submitted to the Holy Cross College (Autonomous) Nagercoil, For the final year under the graduate study is an original work done under The guidance of Sr. S. Antin Mary , M.Sc , NET, SET, Department of Mathematics in Holy cross college (Autonomous ) Nagercoil. It has not formed the basis for the award of any other degree, diploma or any title.

Place: Nagercoil

Date: 31-10-2023

Submitted by

A. Bemisha A. Bemisha

M. Santhiya M. Santhiya.

S.k. Abisha S k. Abisha

P. Sowmiya P. Sowmiya

D. Dhanu Shakani D. Dhanu Shakani

## ACKNOWLEDGEMENT

We bow down before the almighty God and praise him for the blessing he showed upon us, which guided us in taking up this project and gave us the confidence and eligibility to complete it successfully.

We take this opportunity to thank our principal **Dr. Sr. S. Sahaya selvi**, Holy cross College (Autonomous) Nagercoil for us this wonderful opportunity to do the project work. We are also grateful to the head of the department of economics **Dr. S. Jeni Sanjana, M.A, M.Phil, M.B.A, Ph.D.**

We express our profound gratitude to **Sr. S. Antin Mary, M.Sc, NET, SET** Assistant professor of mathematics in Holy cross College (Autonomous), Nagercoil for her genuine guidance, help, comments, excellent suggestions, learned counsel with which we successfully completed this work in the short period of finally we thank all our friends and well-wisher who gave their generous, valuable suggestions and helped for the preparation of this project

A .Bemisha

M.Santhiya

S.K.Abisha

P. Sowmiya

D.Dhanu Shakani

**A Study of common plants, birds, animals or insects of a locality**

**Project report on environment studies**

**Bachelor of Economics**

*Submitted by*

<b>Name</b>	<b>Register No</b>
<b>Sruthi</b>	<b>2021AUF178</b>
<b>Aarthi</b>	<b>2021AUF179</b>
<b>Rinthiya</b>	<b>2021AUF419</b>
<b>Phebe</b>	<b>2021AUF418</b>
<b>Gopika</b>	<b>2021AUF415</b>

**Under the guidance of**

**Sr.S.Antin Mary, M.Sc, NET, SET**



**Department of Economics**

**Holy cross college (Autonomous)**

**Nagercoil – 629 004**

**2023-2024**

Sr. Antin Mary, M.Sc, NET, SET  
Assistant Professor,  
Department of Mathematics,  
Holy Cross College (Autonomous)  
Nagercoil 629004.


### CERTIFICATE

This is Certify that the project report entitled “**A Study of common plants, birds, animals or insects of a locality**” is Bonafide record of project work done by. **Sruthi, Aarthi, Rinthiya, Phebe, Gopika** under my supervision and guidance have submitted is partial fulfillment of the requirement for the degree or Bachelor of economics. It has not formed the basis for the award of any other degree, diploma or any title.

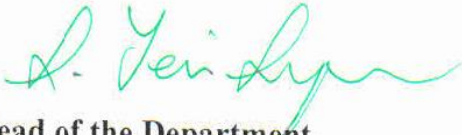
Place: Nagercoil

Date: 31/10/2023

Supervisor

  
**ANTIN MARY S**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

Head of the Department

  
**DR. S. JINI SANJANA**  
Head of the Department  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil.

Examiner





## DECLARATION

We hereby declare that the project report entitled “A Study of common plants, birds, animals or insects of a locality” submitted to the Holy Cross College (Autonomous) Nagercoil, for the final year under the graduate study is an original worked down under the guidance of Sr.S.Antin Mary,M.Sc,NET,SET, Department of Mathematics in Holy Cross College (Autonomous) Nagercoil. It has not formed the basis for the award of any other degree, diploma or any title.

Place: Nagercoil

Date: 31/10/2023

### Submitted by

Sruthi P. Sruthi

Aarthi B.S. Aarthi

Rinthyia L. Rinthyia

Phebe A.V. Phebe

Gopika K. Gopika

## ACKNOWLEDGEMENT

We bow down before the almighty God and praise him for the blessings he showed upon us, which guided us in taking up this project and gave us the confidence and eligibility to complete it successfully.

We Take this opportunity to thank our principal Dr.S.Sahaya Selvi, Holy cross college (Autonomous) nagercoil for us this wonderful opportunity to do the project work. We are also graceful to the Head of the department of Economics Dr.S.Jeni Sanjana,M.A.,M.Phil.,M.B.A.,Ph.D.

We express our profound gratitude to Sr.S.Antin Mary,M.Sc.,NET,SET Assistant professor of mathematics in Holy cross College (Autonomous), Nagercoil for her genuine guidance, help, comments, excellent suggestions, learned counsel with which we successfully completed this work in a short period of time. Finally we thank all our friends and well wishers who gave their generous, valuable suggestions and helped for the preparation of this project.

Sruthi

Aarthi

Rinthiya

Phebe

Gopika



**IMPACT OF WASTE DISPOSAL**

Project report on Environmental Studies

**BACHELOR OF ECONOMICS**

Submitted by

R.H Alshafa	2021AUF165
A. Jeriga Sherly	2021AUF169
A. Megha	2021AUF171
M. Seethalakshmi	2021AUF177
B. Jerofiya	2021AUF446

Under the guidance of

**Sr. S. Antin Mary, M.Sc., NET, SET**

Assistant Professor of Mathematics



**DEPARTMENT OF ECONOMICS**

**HOLY CROSS COLLEGE (AUTONOMOUS)**

**NAGERCOIL- 629004**

**2023-2024**

Sr. S. Antin Mary, M. Sc., NET, SET

Assistant Professor,

Department of mathematics,

Holy Cross College (Autonomous)

Nagercoil 629004.

**CERTIFICATE**

This is to certify that the project report entitled “**IMPACT OF WASTE DISPOSAL**” is bonafide record of project work done by (name) under my supervision and guidance have submitted is partial fulfilment of the requirement for the degree of Bachelor of Economics. It has not formed the basis for the award of any other degree, diploma or any title.

Place: Nagercoil

Date: 31-10-2023

Supervisor



**ANTIN MARY S**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

Examiner



**Dr. S. JENI SANJANA**  
Head of the Department  
Department of Economics  
Holy Cross College (Autonomous)  
Nagercoil.

Head of the Department



## DECLARATION

We hereby declare that the project report entitled "IMPACT OF WASTE DISPOSAL" submitted to the Holy Cross College (Autonomous) Nagercoil, for the final year under graduate study is an original work done under the guidance of Sr. S. Antin Mary, M.Sc., NET, SET, Department of Mathematics in Holy cross College (Autonomous) Nagercoil. It has not been previously prepared for the award of any other degree or diploma.

Place: Nagercoil

Date: 31-10-2023.

Submitted by

R.H Alshafa R.H

A. Jeriga Sherly A. Jeriga Sherly

Megha A A. Megha

M. Seetha Lakshmi M. Seethalakshmi

B. Jerofiya B. Jerofiya

## ACKNOWLEDGEMENT

We bow down before the Almighty God and praise him for the blessings he showed upon us, which guided us in taking up this project and gave us the confidence and eligibility to complete it successfully.

We take this opportunity to thank our principal **Dr. Sr. Sahaya Selvi**, Holy Cross College (Autonomous) Nagercoil for us this wonderful opportunity to do the project work. We are also grateful to the Head of the Department of Economics **Dr. S. Jeni Sanjana, M.A., M.Phil., M.B.A., Ph.D**

We express our profound gratitude to **Sr. S. Antin Mary, M.Sc., NET, SET** Assistant professor of Mathematics in Holy Cross College (Autonomous) Nagercoil for her genuine guide, help, comments, excellent suggestions, learned counsel with which we successfully completed this work in a short period of time.

Finally we thank all our friends and well-wishers who gave their generous, valuable suggestions and helped for the preparation of this project.

R.H Alshafa

A. Jeriga Sherly

A. Megha

M. Seethalakshmi

B. Jerofiya



**Effect of Hygienic on the Health in Kanyakumari**

Project report on Environmental Studies

**BACHELOR OF ECONOMICS**

Submitted by

<b>Name</b>	<b>Reg. No</b>
K. Rishma Jahan	2021AUF173
A. Saranya	2021AUF176
J. John Asmitha	2021AUF416
I. Mariya Melsha	2021AUF417
N. Vijaya Lakshmi	2021AUF422

Under the guidance of

**Sr. S. Antin Mary, M. Sc., NET, SET**

Assistant Professor of Mathematics



**DEPARTMENT OF ECONOMICS**

**HOLY CROSS COLLEGE (AUTONOMOUS)**

**NAGERCOIL – 629004**

**2023 – 2024**

**Sr. S. Antin Mary, M. Sc., NET, SET**

Assistant Professor,

Department of Mathematics,

Holy Cross College (Autonomous)

Nagercoil 629004.

### CERTIFICATE

This is to certify that the project report entitled “Effect of Hygienic of Health in Kanyakumari” is Bonafide record of project work done by, K. Rishma Jahan, A. Saranya, J. John Asmitha, I. Mariya Melsha, N. Vijaya Lakshmi under my supervision and guidance have submitted is partial fulfillment of the requirement for the degree of Bachelor of Economics. It has not formed the basis for the award of any other degree, diploma or any title.


Place: Nagercoil

Date: 31-10-2023

Supervisor

  
**ANTIN MARY S**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

Examiner

  
**Dr. S. JEMI SANJANA**  
Head of the Department  
Department of Economics  
Holy Cross College (Autonomous)  
Nagercoil.



## DECLARATION

We hereby declare that the project report entitled "Effect of Hygienic of Health in Kanyakumari" submitted to the Holy Cross College (Autonomous) Nagercoil, for the final year under the graduate study is an original work done under the guidance of Sr. S. Antin Mary, M. Sc., NET, SET, Department of Mathematics in Holy Cross College (Autonomous) Nagercoil. It has not formed the basis for the award of any other degree, diploma or any title.

Place: Nagercoil

Date: 31-10-2023

Submitted by

K. Rishma K. Rishma Jahan

A. Saranya A. Saranya

J. John Asmitha J. John Asmitha

I. Maria Melsha I. Maria Melsha

N. Vijaya Lakshmi N. Vijaya Lakshmi

## ACKNOWLEDGEMENT

We bow down before the Almighty God and praise him for the blessings he showed upon us, which guided us in taking up this project and gave us the confidence and eligibility to complete it successfully.

We take this opportunity to thank our principal **Dr. Sr. S. Sahaya Selvi**, Holy Cross College (Autonomous) Nagercoil for us this wonderful opportunity to do the project work. We are also grateful to the Head of the Department of Economics **Dr. S. Jeni Sanjana, M.A., M.Phil., M.B.A., Ph.D.**

We express our profound gratitude to **Sr. S. Antin Mary, M.Sc., NET, SET** Assistant professor of Mathematics in Holy cross College (Autonomous), Nagercoil for her genuine guidance, help, comments, excellent suggestions, learned counsel with which we successfully completed this work in a short period of time. Finally we thank all our friends and well-wisher who gave their generous, valuable suggestions and helped for the preparation of this project.

K. Rishma Jahan

A. Saranya

J. John Asmitha

I. Mariya Melsha

N. Vijaya Lakshmi

## DEPARTMENT OF COMMERCE

### A STUDY ON BIODIVERSITY CONSERVATION

*Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the requirements for the award of the Degree of Bachelor of Commerce*

#### Submitted by

Name of the students	Register Number
D. Beaulin Sisi	2021AUA257
M. Meega	2021AUA280
S. Minisha	2021AUA282
E. Nitheesha	2021AUA283
D. Priya	2021AUA285
S. Vini Varshini	2021AUA303

#### Under the guidance of

**Dr G. HESIL JERDA, M.Com., M.Phil., Ph.D**

**Assistant Professor of Commerce**



**DEPARTMENT OF COMMERCE**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A<sup>+</sup> Grade (CGPA 3.35 –IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Thirunelveli

**October, 2023**

**Dr. G. Hesil Jerda, M.Com., M.Phil., Ph.D.,**

Assistant Professor,

Department of Commerce,

Holy Cross College (Autonomous),

Nagercoil – 629 004.

### CERTIFICATE

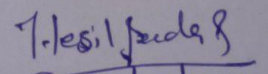
This is to certify that the project work on Environmental Studies titled “**Biodiversity Conservation**” submitted by **D. Beaulin Sisi, M. Meega, S. Minisha, E. Nitheesha, D. Priya, S. Vinu Varshini** from 3<sup>rd</sup> B. Com (aided), Holy Cross College (Autonomous) in partial fulfillment for the award of the Degree of Bachelor of Commerce is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date:



**Head of the Department**

  
30/10/2023  
Supervisor

**Dr.S.MARYPEARLY SUMATHI, M.Com, B.Ed, M.Phil, Ph.D.**  
HEAD OF THE DEPARTMENT  
PG AND RESEARCH DEPARTMENT OF COMMERCE  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629 004

## DECLARATION

We hereby declare that the project work on Environment Studies titled "Biodiversity Conservation" submitted by us for the degree of Bachelor of Commerce done under the guidance of Dr. G. Hesil Jerda ,M.com., M.Phil., Ph.D.,Department of Commerce, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Name and Signature of the Students

Date:

D. Beaulin Sisi *D. Beaulin Sisi*

M. Meega *M. Meega*

S. Minisha *S. Minisha*

E. Nitheesha *Nitheesha*

D.Priya *Priya*

S. Vini Varshini *S. Vini Varshini*

### **ACKNOWLEDGEMENT**

We the project team members wish to express our heartfelt thanks to the Lord Almighty who has helped us with his blessing and made this project a successful one.

We extend our special thanks to our Secretary **Dr. Sr. Mary Gilda** and our Principal **Dr. Sr. Sahayaselvi**, Holy Cross College (Autonomous) for giving this wonderful opportunity to do the project work.

We are grateful to **Dr. S. Mary pearly Sumathi** Head of our department for her excellent assistance, motivation and guidance throughout our project work.

This project could not have been without the successful and gracious assistance of **Dr G. HESIL JERDA, M.Com., M.Phil., Ph.D** . We thank her for the encouragement she gave us to complete this project.

We also express our grateful thanks to all the staffs in the Department of Commerce and also our deep sense of gratitude to our parents and friends who have given us moral support and timely help throughout our project work.

Place: Nagercoil

Date:

#### **Name of the Students**

D. Beaulin Sisi

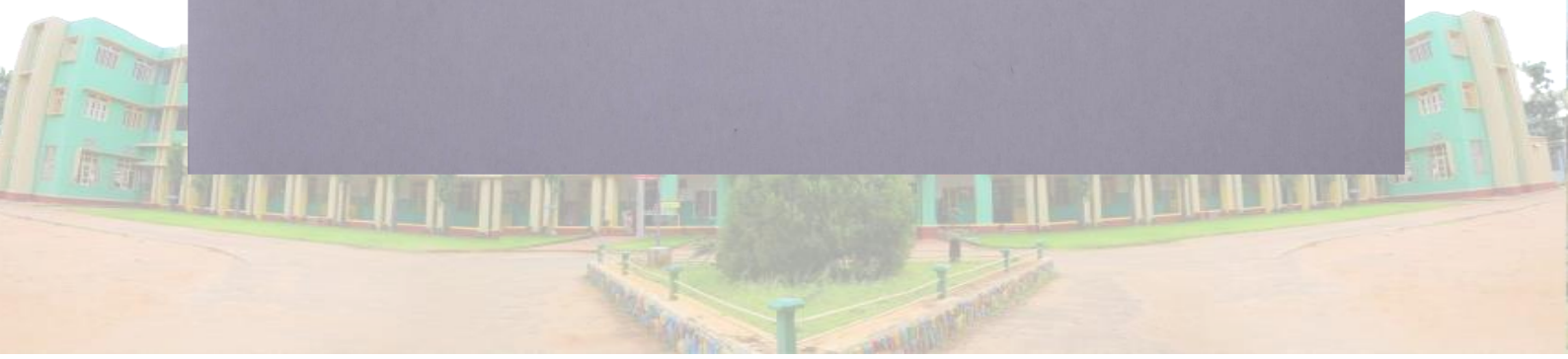
M. Meega

S. Minisha

E. Nitheesha

D. Priya

S. Vinu Varshini



**A STUDY ON TYPES OF ECOSYSTEM**

*Project report on Environmental Studies submitted to Holy Cross College (Autonomous),  
Nagercoil affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the  
requirements for the award of the Degree of Bachelor of Commerce*

**Submitted by**

<b>Name of the students</b>	<b>Register Number</b>
Agusta Jerlyn.P	2021AUA245
Anushiya.A	2021AUA251
Benisha Mol.C	2021AUA258
Harheina.J	2021AUA267
Jerona.S	2021AUA271
Joshini Clement.J	2021AUA273
Sarumathi.K.U.	2021AUA297

**Under the guidance of**

**Dr G. HESIL JERDA, M.Com., M.Phil., Ph.D**

**Assistant Professor of Commerce**



**DEPARTMENT OF COMMERCE**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A+ Grade(CGPA 3.35-IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**October, 2023**

**Dr.G.Hesil Jerda, M.Com.,M.Phil.,Ph.D.,**

Assistant Professor,

Department of commerce, Holy Cross

College (Autonomous), Nagercoil - 629

004.

**CERTIFICATE**

This is to certify that the project work on Environmental Studies titled “ **A Study on Types of Ecosystem** ” submitted by **Agusta Jerlyn.P , Anushiya.A, Benisha Mol.C , Harheina.J , Jerona.S , Joshini Clement.J , Sarumathi.K.U.** of **III B.Com , Holy Cross College (Autonomous)** in partial fulfillment of the requirements for the award of the Degree of Bachelor of Commerce is a bonafide record of the work done by them under my supervision and guidance.

Place : Nagercoil

Date :

*MS*

**Head of the Department**

*Hesil Jerda*  
30/10/2023  
**Supervisor**

**Dr.S.MARY PEARLY SUMATHI, M.Com, B.Ed, M.Phil, Ph.D.**

HEAD OF THE DEPARTMENT

PG AND RESEARCH DEPARTMENT OF COMMERCE

HOLY CROSS COLLEGE (AUTONOMOUS)

NAGERCOIL - 629 004



## DECLARATION

We hereby declare that the project work on Environmental Studies titled “A Study on Types of Ecosystem” submitted by us for the degree of Bachelor of Commerce done under the guidance of **Dr. G. Hesil Jerda**, Assistant Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place : Nagercoil

Date :

Name and Signature of the students

Agusta Jerlyn.P Agusta

Anushiya.A A. Anushiya

Benisha Mol.C C. Benisha

Harheina.J J. Harheina

Jerona.S Jerona.S

Joshini Clement.J J. Joshini Clement

Sarumathi.K.U Sarumathi.K.U

**ACKNOWLEDGEMENT**

We the project team members wish to express our heartfelt thanks to the Lord Almighty who has helped us with his blessing and made this project a successful one.

We extend our special thanks to our Secretary **Dr. Sr. Mary Gilda** and our Principal **Dr. Sr. Sahayaselvi**, Holy Cross College (Autonomous) for giving this wonderful opportunity to do the project work.

We are grateful to **Dr. S. Mary pearly Sumathi** Head of our department for her excellence assistance, motivation and guidance throughout our project work.

This project could not have been without the successful and gracious assistance of **Dr G. HESIL JERDA, M.Com., M.Phil., Ph.D** . We thank her for the encouragement she gave us to complete this project.

We also express our grateful thanks to all the staffs in the Department of Commerce and also our deep sense of gratitude to our parents and friends who have given us moral support and timely help throughout our project work.

Place : Nagercoil

Date:

Name of the students

**Agusta Jerlyn.P**

**Anushiya.A**

**Benisha Mol.C**

**Harheina.J**

**Jerona.S**

**Joshini Clement.J**

**Sarumathi.K.U**

**A STUDY ON BIODIVERSITY CONSERVATION AND  
ENVIRONMENT POLLUTION**

*Project report on Environmental Studies submitted to Holy Cross College  
(Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in Partial  
Fulfillment of the requirements for the award of the Degree of Bachelor of Commerce.*

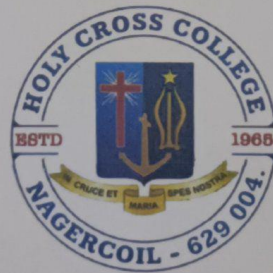
**Submitted by**

<b>Name of the students</b>	<b>Register Number</b>
Anitha Rani .J	2021AUA250
Arockia Jeni .S	2021AUA252
Ashbell Rinisha .S.M	2021AUA254
Jenita .S.K	2021AUA268
Kamala Reshmi .P.R	2021AUA274
Kanaga Veni .T	2021AUA275

**Under the Guidance of**

**Dr. G. Hesil Jerda, M.Com., M.Phil., Ph.D.**

**Associate Professor in Commerce**



**DEPARTMENT OF COMMERCE  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL-629004**

**OCTOBER - 2023**

**Dr. G. Hesil Jerda, M.Com., M.Phil., Ph.D.,**  
Assistant Professor,  
Department of Commerce,  
Holy Cross College (Autonomous),  
Nagercoil-629 004.

**CERTIFICATE**

This is certify that the project work on Environmental Studies titled, **“A study on biodiversity conservation and environment pollution”** submitted by Anitha Rani.J, Arockia Jeni.S, Ashbell Rinisha.S.M, Jenita.S.K, Kamala Reshmi.P.R and Kanaga Veni .T from III B.Com(aided), Holy Cross College(Autonomous) in partial fulfillment of the requirement for the award of the degree of Bachelor of Commerce is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date:

*MS*

**Head of the Department**

**Dr.S.MARY PEARLY SUMATHI, M.Com.B.Ed.M.Phil.Ph.D.**  
HEAD OF THE DEPARTMENT  
PG AND RESEARCH DEPARTMENT OF COMMERCE  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629 004

*G. Hesil Jerda*  
20/10/2023  
**Supervisor**

## DECLARATION

We hereby declare that the project work on Enviromental Studies titled, “ *A Study on biodiversity conservation and environment pollution*” submitted by us for the degree of bachelor of commerce done under the guidance of **Dr. G. Hesil Jerda, M.Com., M.Phil., Ph.D.**, Assistant Professor, Department of Commerce ,Holy Cross College (Autonomous),Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution .

Name of the students	Register Number	Signature
Anitha Rani .J	2021AUA250	<i>J. Anitha Rani</i>
Arockia Jeni .S	2021AUA252	<i>S. Arockia Jeni</i>
Ashbell Rinisha .S.M	2021AUA254	<i>S.M. Ashbell Rinisha</i>
Jenita .S.K	2021AUA268	<i>Jenita .S.K</i>
Kamala Reshmi .P.R	2021AUA274	<i>P.R. Kamala Reshmi</i>
Kanaga Veni .T	2021AUA275	<i>T. Kanaga Veni</i>

Palce: Nagercoil

Date:

## ACKNOWLEDGEMENT

We, the project team members submit our heartfelt gratitude to God Almighty for guiding us throughout us preparation of this project work.

We specially thank the Holy Cross College (Autonomous), for giving this wonderful opportunity to do project work. We also wish to extend our special thanks to our principal Dr. Sr. S. Sahaya Selvi, for permitting us to do this project work.

We are grateful to Dr. S. Mary Pearly Sumathi, M.Com., B.Ed., M.Phil., Ph.D. head of the department of commerce for her excellent assistance, motivation and guidance throughout the project work.

We also express our heartfelt thanks to Dr. Sr. S. Sahaya Selvi, Dr. C. Braba in the department of commerce for the moral support and timely help throughout our project work.

We express our deep sense of gratitude to our parents, friends, and relatives who have given moral support and timely help throughout our project work.

Place: Nagercoil

Date:

### Name of the Students

Anitha Rani .J

Arockia Jeni .S

Ashbell Rinisha .S.M

Jenita .S.K

Kamala Reshmi .P.R

Kanaga Veni .T

**A STUDY ON NATURAL RESOURCES**

*Project report on Environmental Studies submitted to Holy Cross College (Autonomous),  
Nagercoil affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the  
requirements for the award of the Degree of Bachelor of Commerce*

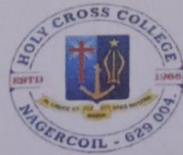
**Submitted by**

<b>Name of the students</b>	<b>Register Number</b>
Abinaya S	2021AUA241
Abishma A R	2021AUA244
Aji S V	2021AUA246
Angel Sadhana R	2021AUA248
Chandana George Sharmi V	2021AUA259
Divya R	2021AUA260

**Under the guidance of**

**Dr G. HESIL JERDA, M.Com., M.Phil., Ph.D**

**Assistant Professor of Commerce**



**DEPARTMENT OF COMMERCE**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A+ Grade(CGPA 3.35-IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**October, 2023**

Dr. G. Hesil Jerda, M.Com., M.Phil., Ph.D.,

Assistant Professor,

Department of Commerce,

Holy Cross College (Autonomous),

Nagercoil – 629 004.

### CERTIFICATE

This is to certify that the project work in Environmental Studies titled “ A STUDY ON NATURAL RESOURCES” submitted by **Abinaya. S, Abishma.A.R, Aji.S.V, Angel Sadhana.R, Chandana George Sharmi.V, and Divya.R** of **III B.Com**, Holy Cross College (Autonomous), Nagercoil, in partial fulfillment of the requirements for the award of the Degree of Bachelor of Commerce is a bonafide record of the work done by them under my supervision and guidance.

Place : Nagercoil

Date :

**Head of the Department**

**Dr.S.MARY PEARLY SUMATHI**, M.Com, B.Ed, M.Phil, Ph.D.  
HEAD OF THE DEPARTMENT  
PG AND RESEARCH DEPARTMENT OF COMMERCE  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629 004

30/6/2022  
**Supervisor**



## DECLARATION

We hereby declare that the project work on Environment Studies titled “ A STUDY ON NATURAL RESOURCES” submitted by us for the degree of Bachelor of Commerce done under the guidance of **Dr. G. Hesil Jerda**, Assistant Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place : Nagercoil

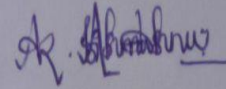
Date :

Name and Signature of the students

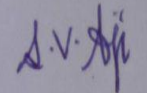
Abinaya S



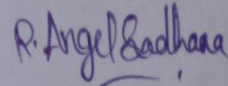
Abishma A R



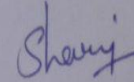
Aji S V



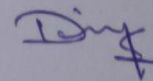
Angel Sadhana R



Chandana George Sharmi V



Divya R



### ACKNOWLEDGEMENT

We the project team members wish to express our heartfelt thanks to the Lord Almighty who has helped us with his blessing and made this project a successful one.

We extend our special thanks to our Secretary **Dr. Sr. Mary Gilda** and our Principal **Dr. Sr. Sahayaselvi**, Holy Cross College (Autonomous) for giving this wonderful opportunity to do the project work.

We are grateful to **Dr. S. Mary pearly Sumathi** Head of our department for her excellent assistance, motivation and guidance throughout our project work.

This project could not have been without the successful and gracious assistance of **Dr G. HESIL JERDA, M.Com., M.Phil., Ph.D** . We thank her for the encouragement she gave us to complete this project.

We also express our grateful thanks to all the staffs in the Department of Commerce and also our deep sense of gratitude to our parents and friends who have given us moral support and timely help throughout our project work.

Place:Nagercoil

Name of the students

Date:

**Abinaya S**

**Abishma A R**

**Aji S V**

**Angel Sadhana R**

**Chandana George Sharmi V**

**Divya R**

## **A STUDY ON TYPES OF POLLUTION AND ITS CAUSES**

Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in Partial Fulfillment of the requirements for the award of the Degree of

### **BACHELOR OF COMMERCE**

Submitted by

<b>Name of the Student</b>	<b>Register Number</b>
ANGELISHA .M	2021AUA249
JERINA JINSIA .A	2021AUA269
LAKIA BRIENDEL .X	2021AUA277
MARIA PREETHI .M	2021AUA279
PUSHPA ROSHINI .R.R	2021AUA286
DONA J	2021AUA426

Under the Guidance of

**Dr. G. Hesil Jerda, M.Com., M.Phil., Ph.D.**

Assistant Professor in Commerce



### **DEPARTMENT OF COMMERCE**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL-629004**

Accredited with A<sup>+</sup> Grade(CGPA 3.35-IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**October, 2023**

**Dr. G. Hesil Jerda, M.Com., M.Phil., Ph.D.,**

Assistant Professor,

Department of Commerce,

Holy Cross College (Autonomous).

**CERTIFICATE**

This is to certify that the project work on Environmental Studies entitled, "A Study on Types of Pollution and its causes" submitted by **M.Angelisha, A. Jerina Jinsia, X. Lakia briendel, M. Maria Preethi, R.R. Pushpa Roshini and J. Dona**, Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Commerce is a bonafide record of the work done by them under my supervision and guidance.

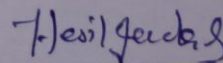
**Place: Nagercoil**

**Date:**



**Head of the Department**

**Dr.S.MARYPEARLY SUMATHI, M.Com, B.Ed, M.Phil, Ph.D.**  
HEAD OF THE DEPARTMENT  
PG AND RESEARCH DEPARTMENT OF COMMERCE  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629 004

  
30/10/2023  
**Supervisor**

### DECLARATION

We hereby declare that the project work on Environmental Studies entitled, "A Study on Types of Pollution and its Causes" submitted by us for the degree of Bachelor of Commerce done under the guidance of **Dr.G.Hesil Jerda, Assistant Professor of Commerce**, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Name and Signature of the Students

Date:

M. Angelisha

M. Angelisha.

A. Jerina Jinsia

A. Jerina Jinsia.

X. Lakia Briendal

X. Lakia Briendal

M. Maria Preethi

M. Maria Preethi

R.R. Pushpa Roshini

Pushpa Roshini

J. Dona

J. Dona

## ACKNOWLEDGEMENT

We wish to express our hearty thanks to almighty who has helped us with his showers of blessings to make this project a successful one.

We extend our Special thanks to our Secretary **Dr. Sr. M. Mary Gilda** and our Principal **Dr. Sr. S. Sahayaselvi**, Holy Cross College (Autonomous) for providing us an opportunity to study in this reputed institution.

We are grateful to **Dr. S. Mary Pearly Sumathi**, Head of the Department of Commerce for her excellence assistance and encouragement.

This project could not have been without the successful and gracious assistance of **Dr. G. Hesil Jerda**, We thank her for the encouragement she gave us to complete this project.

We also express our grateful thanks to all the staffs in commerce Department and also our deep sense of gratitude to our parents and friends who have given support and timely help throughout our project work.

Place: Nagercoil

Name of the Students

Date:

**M. Angelisha**

**A. Jerina Jinsia**

**X. Lakia Briendel**

**M. Maria Preethi**

**R.R. Pushpa Roshini**

**J. Dona**

**DEPARTMENT OF COMMERCE (S.F-I)**

**A STUDY ON IMPACT OF POLLUTION ON OCEAN  
ENVIRONMENT IN MUTTOM VILLAGE**

**Project report submitted to the centre of environmental education**

***holy cross college( autonomous),nagercoil***

***{Affiliated to manonmaniam sundaranar university,thirunelveli}***

***In partial fulfilment of the requirements for the award of degree of***

**BACHELOR OF COMMERCE**

**By**

<b>Agnes Mithila.J</b>	<b>2021SUA105</b>
<b>Akshaya.J</b>	<b>2021SUA107</b>
<b>Anusiya.S</b>	<b>2021SUA116</b>
<b>Fastina Rincy.E</b>	<b>2021SUA123</b>
<b>Infant Ashiba.L.A</b>	<b>2021SUA127</b>
<b>Janu dafney. J</b>	<b>2021SUA129</b>
<b>Nithya Shree.E</b>	<b>2021SUA140</b>
<b>Santh thasnavis dencia A</b>	<b>2021SUA147</b>
<b>Sherin A</b>	<b>2021SUA150</b>
<b>Shibisha K.M</b>	<b>2021SUA151</b>
<b>Harini. A</b>	<b>2021SUA348</b>

**Under the guidance of**

**Mrs. S. Jameela, M.Com., M.Phil.**



**Department of Commerce**

**Holy Cross College (Autonomous)**

**Nagercoil – 629004**

**October - 2023**

**CERTIFICATE**


This is to certify that the dissertation entitled "A STUDY ON IMPACT OF POLLUTION ON OCEAN ENVIRONMENT IN MUTTOM VILLAGE" is a bonafide research work done by Agnes Mithila J, Akshaya J, Anusiya S, Fastina Rincy E, Infant Ashiba L.A, Janu dafney J, Nithya Shree E, Santh thasnavis dencia A, Sherin A, Shibisha K.M, Harini A under our supervision, guidance and submitted in partial fulfillment of the requirements for the degree of Bachelor of Commerce. It has not formed the basis for the award of any degree, diploma, or any other similar title.

Place: Nagercoil

  
Supervisor

Date: 10/10/2023

Head of the Department

  
External Examiner

  
Dr. R. Evalin Latha, M.Com., M.Phil., Ph.D.  
Head of the Department of Commerce (SF-1)  
Holy Cross College (Autonomous),  
Nagercoil - 629 004





## DECLARATION

We hereby declare that, the project work entitled “A STUDY ON IMPACT OF POLLUTION ON OCEAN ENVIRONMENT IN MUTTOM VILLAGE” submitted to Holy Cross College (Autonomous), Nagercoil for the third year graduate study is an original work done under the supervision and guidance of Mrs. S. Jameela, M.Com., M.Phil., Assistant professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil. It has not been previously prepared for the award of any other degree or diploma or any other similar title.

Place: Nagercoil

Date: 10/10/23

Submitted by

Agnes Mithila.J Agnes Mithila

Akshaya.J Akshaya

Anusiya.S Anusiya

Fastina Rincy.E Rincy

Infant Ashiba.L.A Ashiba

Janu dafney. J Janu Dafney

Nithya Shree.E Nithya Shree

Santh thasnavis dencia A Santh thasnavis dencia A

Sherin A Sherin A

Shibisha K.M Shibisha K.M

Harini.A Harini A



**A STUDY ON MICROPLASTIC IN FOOD AND DRINKING WATER**

*Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the requirements for the award of the Degree of Bachelor of commerce*

**Bachelor of commerce**

**By**

Akshaya .S	2021SUA108
Antony jerslin .B	2021SUA114
Flosy .P	2021SUA125
Gowshika .G	2021SUA126
Jaya prabha .K	2021SUA131
Jesika .T	2021SUA133
Jerfera Magdaleen .M	2021SUA134
Nagalakshmi .I	2021SUA137
Sahaya lijina .S	2021SUA375
Sahaya regitha .N	2021SUA145
Seldrin sehi .S	2021SUA149

**Under the guidance of**

**Dr. R. Sree Devi, M.Com.,M.Phil.,Ph..D.,  
Assistant professor**



**DEPARTMENT OF COMMERCE  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL – 629004  
OCTOBER- 2023**



Dr. R. Sree Devi, M.Com.,M.Phil.,Ph..D.,  
Assistant Professor,  
Department of Commerce,  
Holy Cross College (Autonomous),  
Nagercoil - 629 004.

### CERTIFICATE

This is to certify that the project work on Environmental Studies titled "A study on microplastic in food and drinking water" submitted by Akshaya .S ,Antony Jerslin .B, Flosy.P, Gowshika.G, Jaya Prabha .K, Jesika.T, Jerfera Magdaleen.M, Nagalakshmi.I, Sahaya Lijina.S, Sahaya Regitha.N, Seldrin Sehi.S , Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Commerce is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date: 10/10/2023

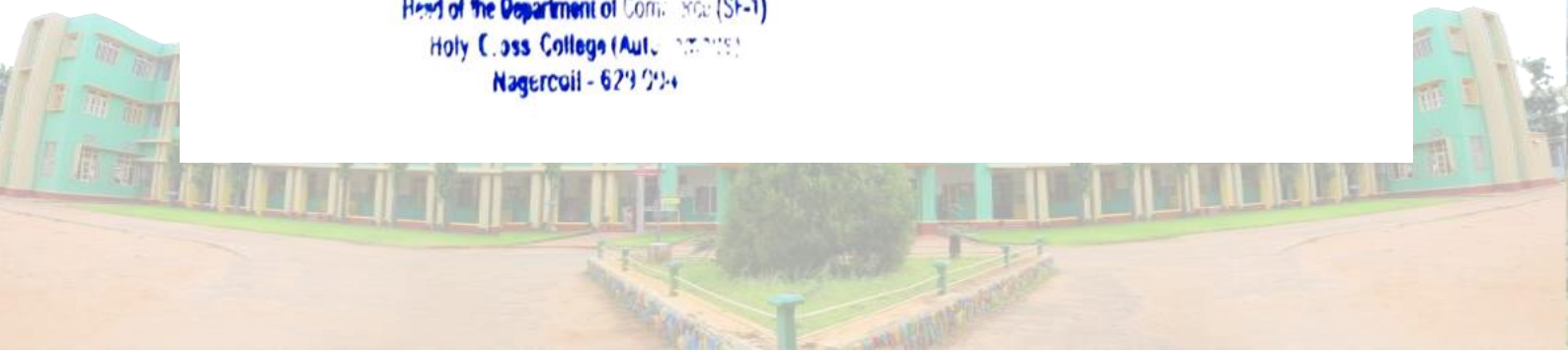
  
External Examiner

  
10/10/23

Head of the Department

  
Supervisor

Dr. R. Evalin Latha, M.Com.,M.Phil.,Ph.D.  
Head of the Department of Commerce (SF-1)  
Holy Cross College (Autonomous)  
Nagercoil - 629 004



## DECLARATION

We hereby declare that the project work on Environmental Studies titled “A STUDY ON MICROPLASTIC IN FOOD AND DRINKING WATER” submitted by us for the degree of Bachelor of Commerce done under the guidance of Dr. R. Sree Devi, Assistant Professor , Department of Commerce, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 10/10/2023

Submitted by

Akshaya.S

Akshaya.S

Antony jerslin .B

Antony jerslin .B

Flosy .P

Flosy .P

Gowshika .G

Gowshika .G

Jaya prabha .K

Jaya prabha .K

Jesika .T

Jesika .T

Jerfera magdaleen.M

Jerfera magdaleen.M

Nagalakshmi.I

Nagalakshmi.I

Sahaya lijina.S

Sahaya lijina.S

Sahaya regitha.N

Sahaya regitha.N

Seldrin schi.S

Seldrin schi.S

**A STUDY ON IMPACT OF WATER POLLUTION  
IN KANYAKUMARI DISTRICT**

*Project report on Environmental Studies submitted to Holy Cross College  
(Autonomous), Nagercoil, affiliated to Manonmaniam Sundaraman University,  
in partial fulfillment of the requirements for the award of the Degree of*

**BACHELOR OF COMMERCE**

**BY**

<i>Sajona .J</i>	<i>2021SUA146</i>
<i>Chandni .M</i>	<i>2021SUA121</i>
<i>Priyadarshini .A.S</i>	<i>2022SUA351</i>
<i>Vimala . G</i>	<i>2021SUA157</i>
<i>Ani Ristina . A</i>	<i>2021SUA111</i>
<i>Tharika Sri Lekha .TG</i>	<i>2021USA155</i>
<i>Lijace .R</i>	<i>2021SUA135</i>
<i>Abisha . L</i>	<i>2021SUA113</i>
<i>Mariya lisoni . A</i>	<i>2021SUA136</i>
<i>Nehemi Dioni . J</i>	<i>2021SUA139</i>
<i>Ananthi . V</i>	<i>2021SUA110</i>

Under the guidance of

**Dr. R. Sree Devi, M.Com, M.Phil., Ph.D.**




Dr. R. SREE DEVI, M.Com., M.Phil., Ph.D.  
Assistant Professor,  
Department of Commerce,  
Holy Cross College (Autonomous),  
Nagercoil -629 004

### CERTIFICATE


This is to certify that the project work on Environmental Studies titled " A STUDY ON IMPACT OF WATER POLLUTION IN KANYAKUMARI DISTRICT " submitted by Sajona .J, Chandni .M, Lijace .R, Priyadarshini .A.S, Vimala .G, Aniristina .A, Tharika sri lekha .T.G, Abisha .L, Mariya lisoni .A, Nehemi dioni .J, Ananthi .v Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Commerce is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date: 10/10/2023

  
External Examiner

Head of the Department

  
Dr. Dr. Revathi C. Pillai, M.Com., M.Phil., Ph.D.  
Head of the Department of Commerce (3K-1)  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

  
Supervisor



## DECLARATION

We hereby declare that the project work on Environmental Studies titled "A STUDY ON IMPACT OF WATER POLLUTION IN KANYAKUMARI DISTRICT" submitted by us for the degree of Bachelor of Commerce done under the guidance of Sajona .J, Chandni .M, Lijace .R, Priyadarshini .A.S, Vimala .G, Aniristina .A, Tharika sri lekha .T.G, Abisha .L, Mariya lisoni .A, Nehemi dioni .J, Ananthi .v, Department of Commerce, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Submitted by

Date: 10/10/2023

Sajona .J J. Sajona

Chandni .M Chandni

Priyadarshini .A.S A.S. Priyadarshini

Vimala .G V. Vimala

Ani Ristina . A Ani Ristina

Tharika Sri Lekha .T.G Tharika

Lijace R Lijace

Abisha .L L. Abisha

Mariya lisoni . A A. Mariya lisoni

Nehemi Dioni . J J. Nehemi Dioni

Ananthi . V V. Ananthi



## BIODIVERSITY CONSERVATION

Accredited with A<sup>+</sup> Grade (CGPA 3.35 –IV Cycle) by NAA

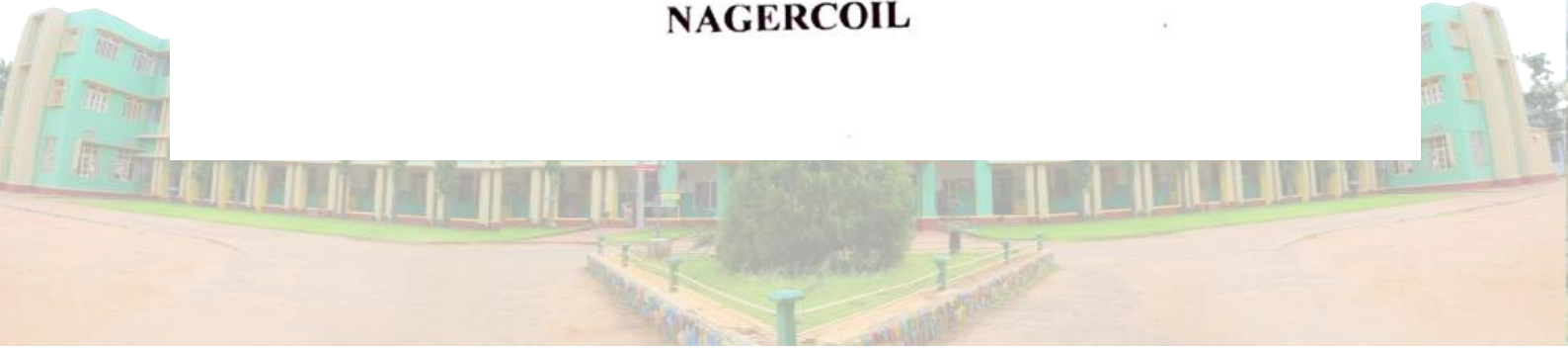
Affiliated to Manonmaniam Sundaranar University, Tirunelveli

### Submitted by

<b>Name of the students</b>	<b>Register Number</b>
Ansel Viansini.M	2021SUA112
Anusuya Grace.J	2021SUA117
Archana.S	2021SUA118
Arockia Nilancy.E	2021SUA119
Navya.B	2021SUA138
Ranjana.K	2021SUA143
Nameetha.A	2021SUA350
Renisha.R	2021SUA352
Sahaya Abisha.S	2021SUA374
Shajini.J	2021SUA387
Esakkidurachi.S	2021SUA410



**DEPARTMENT OF COMMERCE**  
**HOLY CROSS COLLEGE (AUTONOMOUS),**  
**NAGERCOIL**





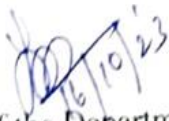
CERTIFICATE

This is to certify that the project work on Environmental Studies titled "Biodiversity Conservation" submitted by Ansel Viansini.M, Anusuya Grace.J, Archana.S, Arockiya Nilancy.E, Navya.B, Ranjana.K, Nameetha.A, Renisha.R, Sahaya Abisha.S, Shajini.J, Esakkidurachi.S from 3<sup>rd</sup> B.Com (Self-1), Holy Cross College (Autonomous) in partial fulfillment for the award of the Degree of Bachelor of Commerce is a bonafide record of the work done by them supervision and guidance.

Place: Nagercoil

Date: 10/10/2023

Head of the Department  
Supervisor





Dr. R. Evalin Latha, M.Com., M.Phil., Ph.D.  
Head of the Department of Commerce (SF-1)  
Holy Cross College (Autonomous)  
Nagercoil - 629 004



External Examiner



## DECLARATION

We hereby declare that the project work on Environment Studies titled "Biodiversity Conservation" submitted by us for the degree of Bachelor of Commerce done under the guidance of Dr. R. Sree Devi, M.com., M.phil., Ph.D., Department of Commerce, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 10/10/2023

Name and Signature of the Students

Ansel Viansini.M M. Ansel.

Anusuya Grace.J J. Anusuya Grace.

Archana.S S. Archana

Arockiya Nilancy.E E.A. Nilancy.

Navya.B Navya.B

Ranjana.K

Nameetha.A A. Nameetha

Renisha.R Renisha.R

Sahaya Abisha.S Sahaya Abisha.S

Shajini.J Shajini.J

Esakkidurachi. S S. Esaj



**A STUDY ON IMPACT OF DEFORESTATION  
IN KANYAKUMARI DISTRICT**

**Project report submitted to the centre of environmental education**

***holy cross college( autonomous),nagercoil***

***{Affiliated to manonmaniam sundaranar university,thirunelveli}***

***In partial fulfilment of the requirements for the award of degree of***

**BACHELOR OF COMMERCE**

By

<b>C ABINAYA</b>	<b>2021SUA104</b>
<b>V AHIMA</b>	<b>2021SUA106</b>
<b>M P AMIRTHA VARSHINI</b>	<b>2021SUA109</b>
<b>A ASWINI</b>	<b>2021SUA120</b>
<b>S JEMEEMA</b>	<b>2021SUA132</b>
<b>A OVIYA BENNETTE</b>	<b>2021SUA141</b>
<b>N SATHIA</b>	<b>2021SUA148</b>
<b>B SOWMIYA</b>	<b>2021SUA153</b>
<b>C STENMY</b>	<b>2021SUA154</b>
<b>X RENISHA</b>	<b>2021SUA373</b>
<b>S JASLIN</b>	<b>2021SUA349</b>



**Department of Commerce  
Holy Cross College (Autonomous)  
Nagercoil – 629004  
October-2023**

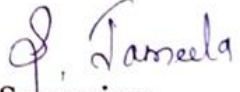


Ms. S. JEMILA, M.Com., M.Phil.,  
Assistant Professor,  
Department of Commerce,  
Holy Cross College (Autonomous),  
Nagercoil -629 004

## CERTIFICATE

This is to certify that the dissertation entitled “A STUDY ON IMPACT OF DEFORESTATION IN KANYAKUMARI DISTRICT” is a bonafide research work done by Abinaya C, Ahima V, Amirtha Varshini M P, Aswini A, Jememma S, Oviya Bennette A, Sathia N, Sowmiya B, Stenmy C, Renisha X, Jaslin S under our supervision, guidance and submitted in partial fulfillment of the requirements for the degree of Bachelor of Commerce. It has not formed the basis for the award of any degree, diploma, or any other similar title.

Place: Nagercoil

  
Supervisor

Date: 10/10/2023

Head of the Department

  
16/10/23

  
External Examiner

Dr. R. Evalin Latha, M.Com., M.Phil., Ph.D.  
Head of the Department of Commerce (SF-1)  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

## DECLARATION

We hereby declare that, the project work entitled "A STUDY ON IMPACT OF DEFORESTATION IN KANYAKUMARI DISTRICT" submitted to Holy Cross College (Autonomous), Nagercoil for the third year graduate study is an original work done under the guidance of Commerce Department, Holy Cross College (Autonomous), Nagercoil. It has not been previously prepared for the award of any other degree or diploma or any other similar title.

Place: Nagercoil

Submitted by

Date: 10/10/2023

Abinaya C *c. abinaya*

Ahima V *Ahima V*

Amirtha Varshini M P *Amirtha Varshini M.P.*

Aswini A *Aswini A*

Jememma S *Jememma S*

Oviya Bennette A *Oviya Bennette A*

Sathia N *Sathia N*

Oviya Bennette B *Oviya Bennette B*

Stenmy C *Stenmy C*

Renisha X *Renisha X*

Jaslin S *Jaslin S*

**DEPARTMENT OF COMMERCE (S.F-II)**

**IMPACT OF NOISE POLLUTION**

Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the requirements for the award of the Degree of Bachelor of Commerce

Submitted by

<b>Name of the students</b>	<b>Register Number</b>
Sargitha.R	2021SUA206
Savariohimani.A	2021SUA207
Selva jershiya.A	2021SUA208
Shafa Fathima.M	2021SUA209
Shobana.P	2021SUA210

Under the guidance of

**DR.X.MARIA MUTHU SHANTHINI,M.com.,M.Phil.,Ph.D**

**Assistant Professor**



**DEPARTMENT OF COMMERCE**

**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**2023-2024**

**Dr.X.Maria Muthu Shanthini, M.Com., M.Phil., Ph.D**

Assistant Professor,

Department of commerce,

Holy Cross College (Autonomous),

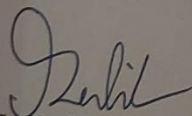
Nagercoil 629004.

**CERTIFICATE**

This is to certify that the project work on Environmental Studies titled “**Impact of noise pollution**” submitted by **Sargitha.R, Savariohimani.A, Selva jersiya.A, Shafa fathima.M and Shobana.P** are third year B.com ,Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Commerce is a bonafide record of the work done by them under my supervision and guidance.

Place:Nagercoil

Date:

  
Head of the Department

  
Supervisor

**Dr. M. GNANA MUHILA**  
Head & Assistant Professor  
Department Of Commerce (SF)  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

**DECLARATION**

We hereby declare that the project report entitled “ **Impact of noise pollution**” submitted to the Holy Cross College (Autonomous) Nagercoil, for the final year under graduate study is an original work done under the guidance of **Dr. X.Maria Muthu Shanthini, M.Com., M.Phil., Ph.D**, Department of commerce in Holy Cross College (Autonomous), Nagercoil. It has not been previously prepared for the award of any other degree or diploma.

**Place:**

**Date:**

**Submitted by**

Sargitha.R

Savariohimani.A

Selva jersiya.A

Shafa Fathima.M

Shobana.P



**CLIMATE CHANGE**

Project report on Environmental Studies submitted to Holy Cross College (Autonomous),  
Nagercoil affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the  
requirements for the award of the Degree of

**Bachelor of commerce**

Submitted by

<b>NAME</b>	<b>REG.NO</b>
<b>S.A. ASLIN NUHA</b>	<b>2021SUA169</b>
<b>K. ATCHAYA</b>	<b>2021SUA170</b>
<b>T. DAYA SARAVAN</b>	<b>2021SUA173</b>
<b>J.S. DHARSHINI</b>	<b>2021SUA174</b>
<b>N. SUBA SREE</b>	<b>2021SUA354</b>

Under the guidance of

**Dr.X.Maria Muthu Shanthini,M.com.,M.Phil.,Ph.D..**



**DEPARTMENT OF COMMERCE**

**HOLY CROSS COLLEGE (AUTONOMOUS)**

Accredited with A<sup>+</sup> Grade(CGPA 3.35 - IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**NAGERCOIL – 629004**

**2023-2024**



**Dr.X.Maria Muthu Shanthini, M.Com., M.Phil., Ph.D**

Assistant Professor,

Department of commerce,

Holy Cross College (Autonomous)

Nagercoil 629004.

### CERTIFICATE

This is to certify that the project work on Environmental Studies titled “**Climate change**” submitted by **S.A. Aslin nuha, K. Atchaya, T. Daya saravn, J.S. Dharshini, N. Suba sree** Holy Cross College (Autonomous) in partial fulfillment of the requirements for the award of the Degree of Bachelor of Commerce is a bonafide record of the work done by them under my supervision and guidance.

Place: Nagercoil

Date: 17.10.2023

  
Head of the Department

  
Supervisor

**Dr. M. ANNEBKA RAJAMILA**  
Head of the Department  
Department of Commerce (B.Com.)  
Holy Cross College (Autonomous)  
Nagercoil - 629 004.

## DECLARATION

We hereby declare that the project work on Environmental Studies titled "**Climate change**" submitted by us for the degree of Bachelor of Commerce done under the guidance of **Dr.X.Maria Muthu Shanthini, M.Com., M.Phil., Ph.D.**, Department of commerce, Holy Cross College (Autonomous), Nagercoil, was entirely carried out by us and it has not been submitted for the award of any other degree, diploma, associate-ship or fellowship of any other University or Institution.

Place: Nagercoil

Name and Signature of the Students

Date:

**S.A. Aslin Nuha**

**K. Atchaya,**

**T. Daya saran,**

**J.S. Dharshini,**

**N. Suba sree**



## RAINWATER COLLECTION SYSTEM

Project report on Environmental Studies submitted to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in Partial fulfillment of the requirements for the award of the Degree of Bachelor of Commerce

### BACHELOR OF COMMERCE

Submitted by

Name	Reg.No
Anni Sahaya Jesmi.J	2021SUA164
Antony Thrisha.M	2021SUA165
Anu Jesmitha.A	2021SUA166
Arockia Subhika.P.J	2021SUA167
Asin Sharni.M	2021SUA168

Under the guidance of

**Dr.X.Maria Muthu Shanthini,M.com.,M.Phil.,Ph.D**



**DEPARTMENT OF COMMERCE**

**HOLY CROSS COLLEGE (AUTONOMOUS)**

Accredited with A+ Grade(CGPA 3.35 - IV Cycle) by NAAC

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

**2023-2024**

Dr.X.Maria Muthu Shanthini, M.Com., M.Phil., Ph.D

Assistant Professor,

Department of commerce,

Holy Cross College (Autonomous),

Nagercoil 629004.

**CERTIFICATE**

This is to certify that the project report entitled "Rainwater collection system" is bonafide record of project work done by, Anni Sahaya Jesmi.J, Antony Thrisha.M, Anu Jesmitha.A, Arockia Subhika.P.J and Asin Sharni.M under my supervision and guidance have submitted in partial fulfillment of the requirement for the degree of Bachelor of Commerce. It has not formed the basis for the award of any other degree, diploma or any title.

Place:Nagercoil

Date:

*X. Shanthini*

Supervisor

*Dr. M. Gnana Muhila*

Head of the Department

**Dr. M. GNANA MUHILA**

Head & Assistant Professor

Department Of Commerce (SF)

Holy Cross College (Autonomous)

Nagercoil - 629 004.

Examiner

**DECLARATION**

We hereby declare that the project report entitled “**Rainwater collection system**” submitted to the Holy Cross College (Autonomous) Nagercoil, for the final year under graduate study is an original work done under the guidance of **Dr. X.Maria Muthu Shanthini, M.Com., M.Phil., Ph.D,** Department of commerce in Holy Cross College (Autonomous), Nagercoil. It has not been previously prepared for the award of any other degree or diploma.

**Place:**

**Date:**

**Submitted by**

Anni Sahaya Jesmi.J

Antony Thrisha.M

Anu Jesmitha.A

Arockia Subhika.P.J

Asin Sharni.M

