



# 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

#### **EARTH-SHAKING CATASTROPHE-DEALING**

Ability Enhancement Course Project report 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,

E. AATHENI	(2020AUM001)
T. ABINAYA	(2020AUM002)
A. ABISHA	(2020AUM003)
J. ABISHA	(2020AUM004)
A.ANGELIN BLESSY	(2020AUM006)
A.ANSELIN	(2020AUM007)
A.ANTO ANUSHA	(2020AUM008)
A.LANTON SHEBA	(2020AUM009)
M.AROCKIA SHABI	(2020AUM010)

#### **III B.S.C.MATHEMATICS**

Under the guidance of

**Ms. J. C. MAHIZHA, M.Sc., M.PHIL., SET**

Assistant professor



PG & RESEARCH DEPARTMENT OF MATHEMATICS,  
HOLY CROSS COLLEGE (AUTONOMOUS),  
(ACCREDITED WITH A+ GRADE (CGPA 3.35)),  
(AFFILIATED TO MANONMANIAM SUNDARANAR UNIVERSITY),  
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NOVEMBER 2022

**Ms. J.C. Mahizha, M.Sc., M.Phil., SET,**

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Holy Cross College (Autonomous),

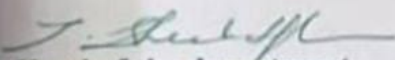
Nagercoil – 629 004.

### CERTIFICATE

This is to certify that this project work entitled “EARTH – SHAKING CATASTROPHE-DEALING” submitted by U.AATHENI (2020AUM001), T.ABINAYA (2020AUM002), A.ABISHA (2020AUM003), J.ABISHA (2020AUM004), A.ANGELIN BLESSY (2020AUM005), A.ANSELIN (2020AUM007), A.ANTO ANUSHA (2020AUM008), A.J.ANTON SHEBA (2020AUM009), MAROCKIA SHABI (2020AUM010) 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: 14.11.2022



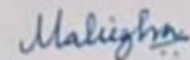
**Head of the department**

**Head**

**Department of Mathematics**

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**Supervisor**

**Ms. J.C. MAHIZHA, M.Sc., M.Phil., SET,**

*Assistant Professor*

**Department of Mathematics**

**Holy Cross College (Autonomous)**

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### DECLARATION

We hereby declare that this project work entitled "EARTH-SHAKING CATASTROPHE-DEALING" submitted by us for the Degree of Bachelor of Science in Mathematics is done under the guidance of **Ms. J.C. Mahizha**, Assistant Professor of Department of Mathematics, Holy Cross College (Autonomous) and it has not been submitted for the award of degree, diploma, associateship or fellowship of any other university or institution.

Place: Nagercoil

Date: 14.11.2022

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U.AATHENI

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*M. Arockia Shabi*  
M.AROCKIA SHABI



## ACKNOWLEDGEMENT

First and foremost, we thank our God Almighty for his marvellous blessings towards us throughout this year to complete our dissertation.

We express our sincere thanks and deep sense of gratitude to our guide and supervisor **Ms. J. C. Mahizha**, for suggesting this research and for her valuable and genuine guidance, constant encouragement, untiring help, keen interest and co-operation throughout the period of investigation.

Our sincere thanks to **Dr. T. Sheeba Helen**, Head of the Department of Mathematics and all the faculty members of Department of Mathematics, Holy Cross College (Autonomous), Nagercoil, for their valuable suggestions, encouragement and help.

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## DESCRIPTION OF CREATION OF GOD

Ability Enhancement course Project report submitted to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in partial fulfilment of the requirement to the award of the degree of

### BACHELOR OF SCIENCE IN MATHEMATICS

Submitted By

ASHIKA.V	(2020AUM011)
ASHINA JOY.A	(2020AUM012)
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BREETHI SHALIN.A	(2020AUM014)
BRINDHA.S	(2020AUM015)
BRINTHA.J	(2020AUM016)
CRENA PEARL.B	(2020AUM017)
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### III B.SC.MATHEMATICS

Under the guidance of

Mrs. J.C. MAHIZHA, M.Sc., M.Phil, SET  
Assistant professor



PG & RESEARCH DEPARTMENT OF MATHEMATICS  
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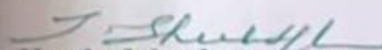
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### CERTIFICATE

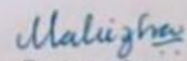
This is to certify that this project work entitled "**DESCRIPTION OF CREATION OF GOD**" submitted by **ASHIKA.V** (2020AUM011), **ASHINA JOY.A** (2020AU012), **BENISHA.B** (2020AUM013), **BREETHI SHALINA.A** (2020AUM014), **BRINDHA.S** (2020AUM015), **N. BRINTHA.J** (2020AUM016), **CREANA PEARL.B** (2020AUM017), **DINIJA.E** (2020AUM018), **FATHIMA AFREEN.M** (2020AUM019) of III. B. Sc. Mathematics to 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: 14.11.2022

  
Head of the department

Head  
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Supervisor

Ms. J.C. MAHIZHA, M.Sc., M.Phil., SET,  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

## DECLARATION

We hereby declare that this project work entitled "DESCRIPTION OF CREATION OF GOD" submitted by us for the Degree of Bachelor of Science in Mathematics is done under the guidance of, **Ms. J .C. Mahizha**, Assistant Professor of Department of Mathematics, Holy Cross College (Autonomous), and it has not been submitted for the award of degree, diploma, associateship or fellowship of any other University or Institution.

Place: Nagercoil

Date: 14.11.2022

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ASHIKA.V

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Brintha J  
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B. Creana Pearl.  
CREANA PEARL.B

E. Dinija  
DINIJA.E

M. Fathima Afreen.  
FATHIMA AFREEN.M



## ACKNOWLEDGEMENT

First and foremost, we wish to thank the Almighty God for his marvelous blessing towards us, all throughout this year to complete our dissertation.

We wish to express our sincere thanks and deep sense of gratitude to our guide and supervisor **Ms. J. C. Mahizha**, Assistant Professor of Mathematics for suggesting this research and for her valuable and genuine guidance, constant encouragement, untiring help, keen interest and co-operation throughout the period of investigation.

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*B. Benisha*  
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*F. Dinija*  
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*M. Fathima Afreen*  
FATHIMA AFREEN.M

# **REBUILDING A POLLUTION FREE ENVIRONMENT.**

Ability Enhancement course Project report submitted to Holy Cross College  
(Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in partial  
fulfilment of the requirement to the award of the degree of  
**BACHELOR OF SCIENCE IN MATHEMATICS**

Submitted By

<b>GINCY MOL Z</b>	<b>(2020AUMO21)</b>
<b>JOHNSHIKA J</b>	<b>(2020AUMO22)</b>
<b>JUDITH S</b>	<b>(2020AUMO23)</b>
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<b>MICHAEL DIXCIL V</b>	<b>(2020AUMO28)</b>
<b>RAYONA MACE R</b>	<b>(2020AUMO29)</b>
<b>ROMERA M R</b>	<b>(2020AUMO30)</b>

**III B.SC.MATHEMATICS**

Under the guidance of

**Ms. J.C. MAHIZHA, MSc., MPhil, SET**

Assistant Professor



**PG AND RESERCH DEPARTMENT OF MATHEMATICS  
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Ms. J.C. Mahizha, M.Sc., M.phil, SET,  
Assistant Professor,  
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### CERTIFICATE

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of III B.Sc. Mathematics (Aided), Holy Cross College (Autonomous), in partial fulfilment of the requirement for the award of the degree of **BACHELOR OF SCIENCE IN MATHEMATICS** is a bonafide record of the work done by them under supervision and guidance.

Place: Nagercoil

Date: 14.11.2022

  
Head of the Department  
Head  
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Supervisor  
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Assistant Professor  
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Holy Cross College (Autonomous)  
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## DECLARATION

We hereby declare that this project work entitled "REBUILDING A POLLUTION FREE ENVIRONMENT." submitted by us for the degree of Bachelor of Science in Mathematics is done under the under the guidance Ms. J.C. Mahizha, Department of Mathematics (Aided), Holy Cross College (Autonomous) and it has not been submitted for the degree, diploma, associate ship or fellowship of any University of Institution.

Place: Nagercoil

Date: 14.11.2022

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GINCY MOL Z

*J. Johnshika*  
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*J. Judith*  
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*R. Linsa Rajan*  
LINSA RAJAN R

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MARIA M R MARSHIYA

*Mary Jenifer*  
MARY JENIFER G

*V. Michael Dixcil*  
MICHAEL DIXCIL V

*Rayona Mace-R*  
RAYONA MACE R

*Romera*  
ROMERA M R

## ACKNOWLEDGEMENT

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GINCY MOL Z

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*V. Michael Dixcil*

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RAYONA MACE R

*Romera*

ROMERA M R



# BIODIVERSITY IN HOLISTIC DEVELOPMENT

Ability Enhancement course Project report submitted to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in partial fulfilment of the requirement to the award of the Degree of

## BACHELOR OF SCIENCE IN MATHEMATICS

Submitted By

<b>S. SAHAYA SNEHA</b>	<b>(2020AUM031)</b>
<b>J. SARANYA</b>	<b>(2020AUM033)</b>
<b>A. SARASWATHY KRUPAA</b>	<b>(2020AUM034)</b>
<b>V. SHENBAGA LAKSHMI</b>	<b>(2020AUM035)</b>
<b>A. SHERBIN THARIKA</b>	<b>(2020AUM036)</b>
<b>R. SUVETHA</b>	<b>(2020AUM037)</b>
<b>D. AGHALYA</b>	<b>(2020AUM364)</b>
<b>G. ANSY</b>	<b>(2020AUM365)</b>
<b>D. FLARANCE VISMA</b>	<b>(2020AUM366)</b>

### III B.SC. MATHEMATICS

Under the guidance of

**Ms. J. C. MAHIZHA, M.Sc., M.Phil., SET**  
Assistant Professor



**PG & RESEARCH DEPARTMENT OF MATHEMATICS**  
**HOLY CROSS COLLEGE (AUTONOMOUS)**  
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**NOVEMBER 2022**



**Ms. J .C. Mahizha, M.Sc., M.Phil., SET,**


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### CERTIFICATE

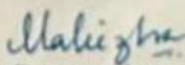
This is to certify that the project work entitled '**BIODIVERSITY IN HOLISTIC DEVELOPMENT**' submitted by **S. SAHAYA SNEHA** (Reg no. 2020AUM031), **J. SARANYA** (Reg no. 2020AUM033), **A.SARASWATHY KRUPAA** (Reg no. 2020AUM034), **V.SHENBAGA LAKSHMI** (Reg no. 2020AUM035), **A.SHERBIN THARIKA** (Reg no. 2020AUM036), **R.SUVETHA** (Reg no. 2020AUM037), **D.AGHALYA** (Reg no. 2020AUM364), **G.ANSY** (Reg no. 2020AUM365), **D.FLARANCE VISMA** (Reg no. 2020AUM366) of III B.Sc. Mathematics , to the Department of Mathematics, 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 SCIENCE IN MATHEMATICS** is a record of the bonafide work done during the academic year 2022-2023 under my guidance and supervision.

Place: Nagercoil

Date: 14.11.2022

  
**Head of the Department**

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

  
**Supervisor**

**Ms. J.C. MAHIZHA, M.Sc.M.Phil.,SE**  
**Assistant Professor**  
**Department of Mathematics**  
**Holy Cross College (Autonomous)**  
**Nagercoil - 629 004**

## DECLARATION

Hereby we declare that this project work entitled '**BIODIVERSITY IN HOLISTIC DEVELOPMENT**' submitted by us for the degree of Bachelor of Science in Mathematics is the result of our original and independent research work carried out under the guidance of **Ms. J.C. MAHIZHA, M.Sc., M.Phil., SET**, Assistant professor, Department of Mathematics (Aided), Holy Cross College (Autonomous) and it has not been submitted elsewhere for the award of any degree, diploma, associateship or fellowship of any University or Institution.

Place: Nagercoil

Date: 14.11.2022

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1. S. SAHAYA SNEHA	2020AUM031	S. Sahaya Sneha
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4. V.SHENBAGA LAKSHMI	2020AUM035	V. Lakshmi
5. A.SHERBIN THARIKA	2020AUM036	A. Sherbin Tharika
6. R.SUVETHA	2020AUM037	R. Suveetha
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8. G.ANSY	2020AUM365	G. Ansy
9. D.FLARANCE VISMA	2020AUM366	D. Visma



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NAME	REG.NO	SIGNATURE
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3. A.SARASWATHY KRUPAA	2020AUM034	A. Saraswathy Krupaa
4. V.SHENBAGA LAKSHMI	2020AUM035	V. Shenbaga Lakshmi
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7. D.AGHALYA	2020AUM364	D. Aghalya
8. G.ANSY	2020AUM365	G. Ansy
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# **ENVIRONMENTAL CONDITIONS OF DESERT ECOSYSTEM**

Ability Enhancement course Project report submitted to Holy Cross College  
(Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University in partial  
fulfilment of the requirement to the award of the degree of  
**BACHELOR OF SCIENCE IN MATHEMATICS**

Submitted By

**JOSIAH J MARY (2020AUM367)**  
**A.NISHTA DAS (2020AUM368)**  
**V.SUSAN THARASA (2020AUM369)**  
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**J.P. AGNAL HEZAL (2020AUM522)**  
**III B.SC.MATHEMATICS**

Under the guidance of  
**Ms. J.C. MAHIZHA, M.Sc., MPhil, SET**  
Assistant Professor



**PG AND RESEARCH DEPARTMENT OF MATHEMATICS,  
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NAGERCOIL - 629 004  
NOVEMBER 2022**

Ms. J.C. Mahizha, M.Sc., M.phil, SET,  
Assistant Professor,  
PG and Research Department of Mathematics,  
Holy Cross College (Autonomous),  
Nagercoil – 629 004.

**CERTIFICATE**

This is to certify that this project work entitled "ENVIRONMENTAL CONDITIONS OF DESERT ECOSYSTEM" submitted by JOSIAH J MARY (2020AUM367), A.NISHTA DASI (2020AUM368), V.SUSAN THARASA (2020AUM369), C.ABISHA (2020AUM395), P. PONPRATHIBA (2020AUM396), N. J SREENIKA (2020AUM397), STELLA MARY LAWRENCE (2020AUM398), J.P. AGNAL HEZAL (2020AUM522) of III. B. Sc. Mathematics to Holy Cross College (Autonomous), in partial fulfilment 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: 14.11.2022

  
Head of the department

Head  
Department of Mathematics  
Holy Cross College  
NAGERCOIL

  
Supervisor

Ms. J.C. MAHIZHA, M.Sc., M.Phil., SET,  
Assistant Professor  
Department of Mathematics  
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Place: Nagercoil

Date: 14.11.2022

JOSIAH J MARY *Josiah Mary*

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P.PON PRATHIBA *P. Ponprathiba*

STELLA MARY LAWRENCE *Stella Mary Lawrence*

*Sr. Nishita Dasi*  
Sr. NISHTA DASL A

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*N. J. Sreenika*  
N. J. SREENIKA

*Agnal Hezal*  
J. P. AGNAL HEZAL



## ACKNOWLEDGEMENT

First and foremost, we wish to thank the Almighty God for his marvelous blessing towards us, all throughout this year to complete our dissertation.

We wish to express our sincere thanks and deep sense of gratitude to our guide and supervisor **Ms. J. C. Mahizha**, Assistant Professor of Mathematics for suggesting this research problem and for her valuable and genuine guidance, constant encouragement, untiring help, keen interest and co-operation throughout the period of investigation.

Our sincere thanks to **Dr. T. Sheeba Helen**, Head of Department of Mathematics and all the faculty members of the PG and Research Department of Mathematics, Holy Cross College, Nagercoil for their valuable suggestion, encouragement and help.

We wish to express our appreciation and gratitude to our Secretary **Dr. Sr. M. Mary Hilda**, Principal **Dr. Sr. S. Sahayaselvi**, Vice Principal **Dr. Sr. P. Leema Rose**, Controller of Examinations **Dr. J. Vinoliya Josephine Mary** and our Librarian **Dr. Sr. A. Mary Johnsy**, Holy Cross College, Nagercoil for their encouragement and sincere guidance in all aspects of the project.

Finally our heartfelt thanks to our parents and friends to give this project a creative blend and help us in various phases of the project. A big thanks to all those who willingly helped us out with their abilities.

JOSIAH J MARY *Josiah J Mary*

V. SUSAN THARASA *Susan Tharasa*

P.PON PRATHIBA *P. Ponprathiba*

STELLA MARY LAWRENCE *Stella Mary Lawrence*

*Sr. Nishita Das*  
Sr. NISHTA DAS, A

*C. Abisha*  
C. ABISHA

*N. J. Sreenika*  
N. J. SREENIKA

*Agnaal Hezal*  
J. P. AGNAL HEZAL



DEPARTMENT OF MATHEMATICS (SF)



## Submitted by,

- |                   |            |
|-------------------|------------|
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| ➤ A.R.Kaviya      | 2020SUM022 |
| ➤ S.Koshika       | 2020SUM023 |
| ➤ L.Lashiga       | 2020SUM024 |
| ➤ T.Lekshmi Divya | 2020SUM025 |



## **ACKNOWLEDGEMENT**

*I thank God almighty for giving us strength, courage concentration and determination to complete field work.*

*I thank our Principal Dr.Sr.S.Sahayaselvi who provided us all facility to do this field work and I thank our H.O.D Dr.S.Kavitha who supported to do this field work.*

*I thank our guide Mrs.J.Nesam Flower for bringing out this project successfully. I extended my gratitude to all staff members of BSC for helping us.*


  
Signature of Guide

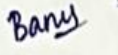
  
Signature of HOD  
Department of Mathematics (S.F.)  
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Nagercoil - 629 004.


## DECLARATION


***I hereby declare that the field work entitled in Kotilpadu and Colachel is my original work under the guidance and supervision of Mrs.J.Nesam Flower in the partial fulfillment of the requirement for the award of BSc. Mathematics .This work has not formed the basis for the award of any other degree.***

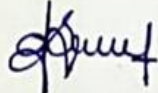
### ***Signature of Students:***

S.L.Ashika. 

Banu.P.S.Christy 

Mi. Debu Ashme 

Denashma.M.P 

M. Deva Sri Divya Varsha. 

<b>NAME</b>	<b>REGISTER NUMBER</b>
<b>DHAMINI .D.S</b>	<b>2020SUM015</b>
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<b>INFANT PREANAISHA .F</b>	<b>2020SUM019</b>
<b>JANISH ANGELIN .M</b>	<b>2020SUM020</b>



# ACKNOWLEDGMENT

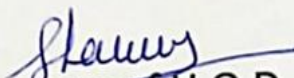
I thank god almighty for giving us strength, courage, concentration and determination to complete field work.

I thank our Principal Dr.Sr.S.Sahaya Selvi who provided us all facility to do this field work and I thank our H.O.D Dr.S.Kavitha who supported to do this fieldwork.

I thank our guide Dr.J.Nesa Golden Flower for bringing out this project successfully. I extended my gratitude to all staff members of B.Sc. for helping us.

Finally I thank my friends and family members who have supported to do this project successfully on Plastic pollution in Nagercoil.

  
Signature of guide

  
Signature of H.O.D  
Department of Mathematics (S.F.)  
Holy Cross College (Autonomous)  
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## DECLARATION

I hereby declare that the field work entitled Nagercoil is my original work, under the guidance of and supervision of Dr.J.Nesa Golden Flower in the partial fulfillment of therequirement for the award of B.Sc.Mathematics. This work has not formed the basis for the awardof any other degree.

### Signature of students

1. Dhamini . D . S



2. Eswari . M

M. Eswari

3. Hena . R . S

R. S. Hena

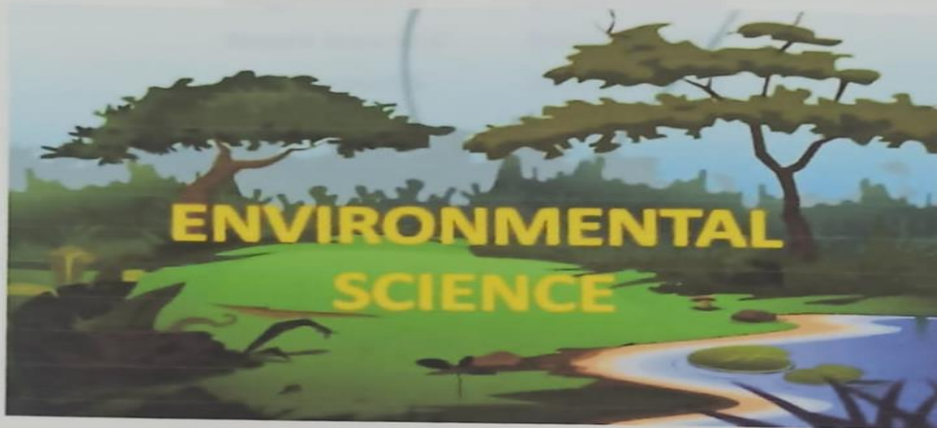
4. Infant Preanaisha . F

F. Infant

5. Tanish Angelin . M

M. Tanish Angelin

**ENVIRONMENTAL STUDIES**



**Mahalakshmi.A      2020SUM026**

**Maria Glefri.M      2020SUM027**

**Nagaveena.M      2020SUM028**

**Noora Jaza.M.C      2020SUM029**

**Pitchammal.S      2020SUM030**




## ACKNOWLEDGMENT


I thank god almighty for giving us strength, courage, concentration and determination to complete field work.

I thank our Principal **Dr. Sr. S. Sahayaselvi** who provided us all facility to do this field work and I thank our H.O.D **Dr. S. Kavitha** who supported to do this field work.

I thank our guide **Dr.J.Nesa Golden Flower** for bringing out this project successfully. I extended my gratitude to all staff members of B.Sc. for helping us.

Finally I thank my friends and family members who have supported to do this project successfully on selected tourist spots in Tamil Nadu .

  
Signature of guide

  
Signature of H.O.D  
Department of Mathematics (S.F.)  
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Nagercoil - 629 004,

## DECLARATION

I hereby declare that the field work entitled is my original work, under the guidance of and supervision of **Dr.J.Nesa Golden Flower** in the partial fulfillment of the requirement for the award of BSc Mathematics. This work has not formed the basis for the award of any other degree.

## Signature of Students

- |                       |                           |
|-----------------------|---------------------------|
| 1. Mahalakshmi . A    | <u>Mahalakshmi . A</u>    |
| 2. Maria Gilefri . M  | <u>M. Gilefri</u>         |
| 3. NagaVeena . M      | <u>NagaVeena . M</u>      |
| 4. Noora Jaza . M . c | <u>Noora Jaza . M . c</u> |
| 5. Pitchammal . S     | <u>S. Pitchammal</u>      |



## Submitted by,

- S.L.Ashika. 2020SUM009
- Banu P.S Christy 2020SUM011
- M.Debu Ashmi 2020SUM012
- M.P.Denashma 2020SUM013
- M.Deva Sri Divya varsha 2020SUM014



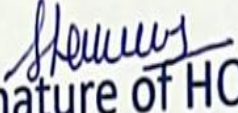
## ACKNOWLEDGEMENT

*I thank God almighty for giving us strength, courage concentration and determination to complete field work*

*I thank our principal Dr .Sr .S .Sahayaselvi who provided us all facility to do this field work and I thank our H.O.D Dr.S.Kavitha who supported to do this fieldwork.*

*I thank our guide Mrs.J.Nesam Flower for bringing out this project successfully. I extended my gratitude to all staff members of BSC for helping us.*

  
Signature of Guide

  
Signature of HOD  
Department of Mathematics (S.F.)  
Koly Cross College (Autonomous)  
Nagercoil - 629 004.

## DECLARATION

I hereby declare that the field work entitled in Kanyakumari district is my original work under the guidance and supervision of Mrs.J.Nesam Flower in the partial fulfillment of the requirement for the award of BSc. Mathematics .This work has not formed the basis for the award of any other degree

*Signature of Students*

R. ~~Divya~~

Janiya AR.

S. Koshika .

L. Lashiga

T. Lekshmi Divya

R. Jose Rency

A.R. Kaniya

S. Koshika

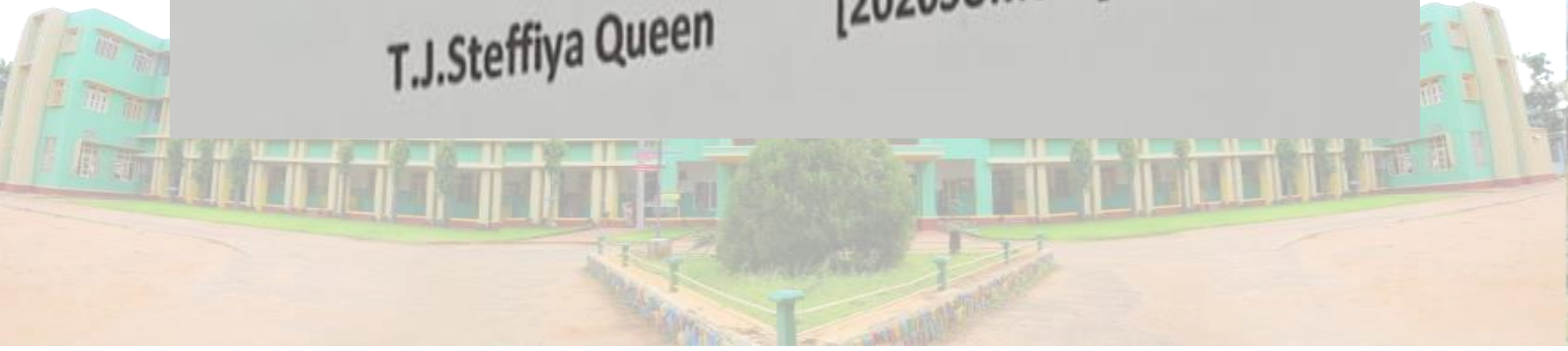
L. Lashiga

T. Lekshmi Divya

# ENVIRONMENTAL STUDIES



M.Priya Jasmin	[2020SUM031]
D.Rofina Sergius	[2020SUM034]
A.S.Shiya Roy	[2020SUM035]
R.S.Snekha	[2020SUM036]
T.J.Steffiya Queen	[2020SUM037]





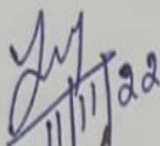
## ACKNOWLEDGMENT


I thank god almighty for giving us strength, courage, concentration and determination to complete field work.

I thank our Principal **Dr. Sr. S. Sahayaselvi** who provided us all facility to do this field work and I thank our H.O.D **Dr. S. Kavitha** who supported to do this field work.

I thank our guide **Dr.J.Nesa Golden Flower** for bringing out this project successfully. I extended my gratitude to all staff members of B.Sc. for helping us.

Finally I thank my friends and family members who have supported to do this project successfully on selected flood affected villages.

  
Signature of guide

  
Signature of H.O.D

Department of Mathematics (S.F.)

Holy Cross College (Autonomous)

Nagercoil - 629 004.

## DECLARATION

I hereby declare that the field work entitled is my original work, under the guidance of and supervision of **Dr.J.Nesa Golden Flower** in the partial fulfillment of the requirement for the award of BSc Mathematics. This work has not formed the basis for the award of any other degree.

## Signature of Students

M. Priya Jasmin	Priya.M
D. Roshina Sergius	D Roshina Sergius
A.S. Shiya Roy	Shiya Roy . A.S
R.S . Sneha	Sneha .
T. J . Steffiya Queen	Steffiya

**DEPARTMENT OF PHYSICS**

**ENVIRONMENTAL SCIENCE  
PROJECT  
WATER POLLUTION IN MELASURANKUDY RIVER  
HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**

*affiliated to Manonmaniam Sundaranar University in partial  
fulfilment of the requirement for the award of the degree of*

**BACHELOR OF SCIENCE IN PHYSICS**

*Submitted by*

<b>A.ABISHA MARY</b>	<b>(REG NO:2020AUP039)</b>
<b>J.BLESSIKA</b>	<b>(REG NO:2020AUP048)</b>
<b>J.M.JIJI</b>	<b>(REG NO:2020AUP056)</b>
<b>K.POOJA</b>	<b>(REG NO:2020AUP064)</b>
<b>P.SAHAYA JASLIN SHINY</b>	<b>(REG NO:2020AUP400)</b>
<b>N.DEEPIKA</b>	<b>(REG NO:2020AUP401)</b>

**Under the guidance of  
Dr.S.J.Jenepha Mary M.Sc.,MCA.,Ph.D**



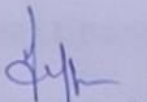
**DEPARTMENT OF PHYSICS  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL-629004**

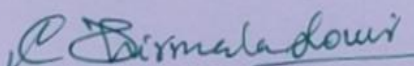


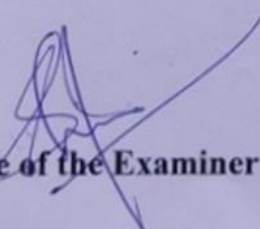
Dr. S.J. Jenepha Mary, M.Sc, M.C.A, Ph.D,  
Assistant Professor of Physics,  
Holy Cross College (Autonomous),  
Nagercoil – 629 004.

### CERTIFICATE

This is to certify that this project report entitled “WATER POLLUTION IN RIVER” is a bonafide record of work done by Miss. A. Abisha Mary (Reg.No.2020AUP039), Miss .J.Blessika (Reg.No.2020AUP048), Miss .J.M.Jiji (Reg.No.2020AUP056), Miss. K.Pooja (Reg.No.2020AUP064) and Miss. P.Sahaya Jaslin Shiny (Reg.No.2020AUP400), Miss. N.Deepika (Reg.No.2020AUP401) of III B.Sc Physics in partial fulfilment of the degree of Bachelor of Science in Physics, Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University during the academic year 2020-2023 under my supervision.

  
Signature of the Project Guide

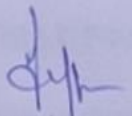
  
Signature of the Head of the Department

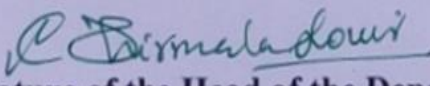
  
Signature of the Examiner

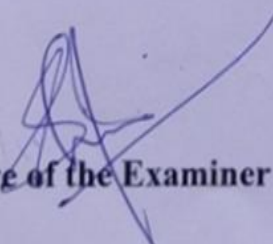
Dr. S.J. Jenepha Mary, M.Sc, M.C.A, Ph.D,  
Assistant Professor of Physics,  
Holy Cross College (Autonomous),  
Nagercoil – 629 004.

**CERTIFICATE**

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**Signature of the Project Guide**

  
**Signature of the Head of the Department**

  
**Signature of the Examiner**

**LAND AND AIR POLLUTION BY WASTE DUMPING IN  
ERULAPPAPURAM**

**PROJECT REPORT**

*Submitted to Holy Cross College (Autonomous) Nagercoil, affiliated to Manonmaniam  
Sundaranar University*

by

<b>NAME</b>	<b>REGISTER NUMBER</b>
DELBIN GRACE T	2020AUP050
S. SAHAYA ABISHA	2020AUP068
A. SAHAYA SOOSANNA	2020AUP070
M. M. VAIKUNDA KOWSIKA	2020AUP074
J. VIMALA	2020AUP076

Under the guidance of

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



**DEPARTMENT OF PHYSICS HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL-629004 NOVEMBER-2022**



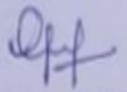
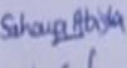
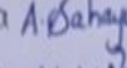
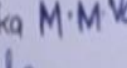
## DECLARATION

We hereby declare that the project work entitled "EVALUATING THE ENVIRONMENTAL IMPACTS OF SOLID WASTE LANDFILLING" is a record of original and independent research work done by us under the guidance and supervision of Dr. V. Shally, Department of Physics, Holy Cross College (Autonomous), Nagercoil, submitted to the Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu in partial fulfilment of the requirements for the award of Bachelor of Science in Physics and has not previously formed the basis for the award of any degree/ associateship/ fellowship or other similar title.

Place : Nagercoil

Date : 21.11.2022

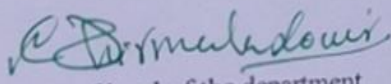
Signature of the candidates

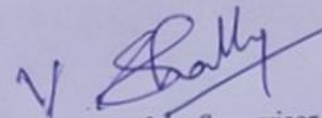
Delbin Grace.T   
S. Sahaya Abisha   
A. Sahaya Srosanna A. Sahaya   
M.M. Valkunda Keerika M.M. Valkunda   
J. Vimala J. Vimala.

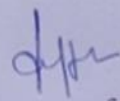
Dr. V. Shally, M.Sc., M.Phil., Ph.D.  
Department of Physics,  
Holy Cross College (Autonomous),  
Nagercoil- 629 004

**CERTIFICATE**

This is to certify that the dissertation entitled "LAND AND AIR POLLUTION BY WASTE DUMPING IN ERULAPPAPURAM" submitted to Holy Cross College (Autonomous), Nagercoil, for the course work in mini project is a bonafide record of research work done by Delbin Grace T (2020AUP050), S. Sahaya Abisha (2020AUP068), A. Sahaya Soosanna (2020AUP070), M.M. Vaikunda Kowsika (2020AUP074), J. Vimala (2020AUP076) in partial fulfilment of the requirements for the award of the degree of Bachelor of Science in Physics was done under my guidance during the year 2022-2023.

  
Signature of head of the department

  
Signature of the Supervisor

  
Signature of External Examiner

DEPARTMENT OF CHEMISTRY

Holy Cross College  
(autonomous),  
Nagercoil - 4.

Environmental  
Studies....  
Project

SUBMITTED ON :

26.10.2022

Under the guidance of...

Dr. Gladis Latha.

SUBMITTED BY :

A. Annie Ronaldina

III BSc. Chemistry

REG. No. : 2020AUC081

Good



# KULATHOOR WATERBODIES AND IT'S DISEASE CAUSING AGONY

Project Report on Environmental studies [AEC201]

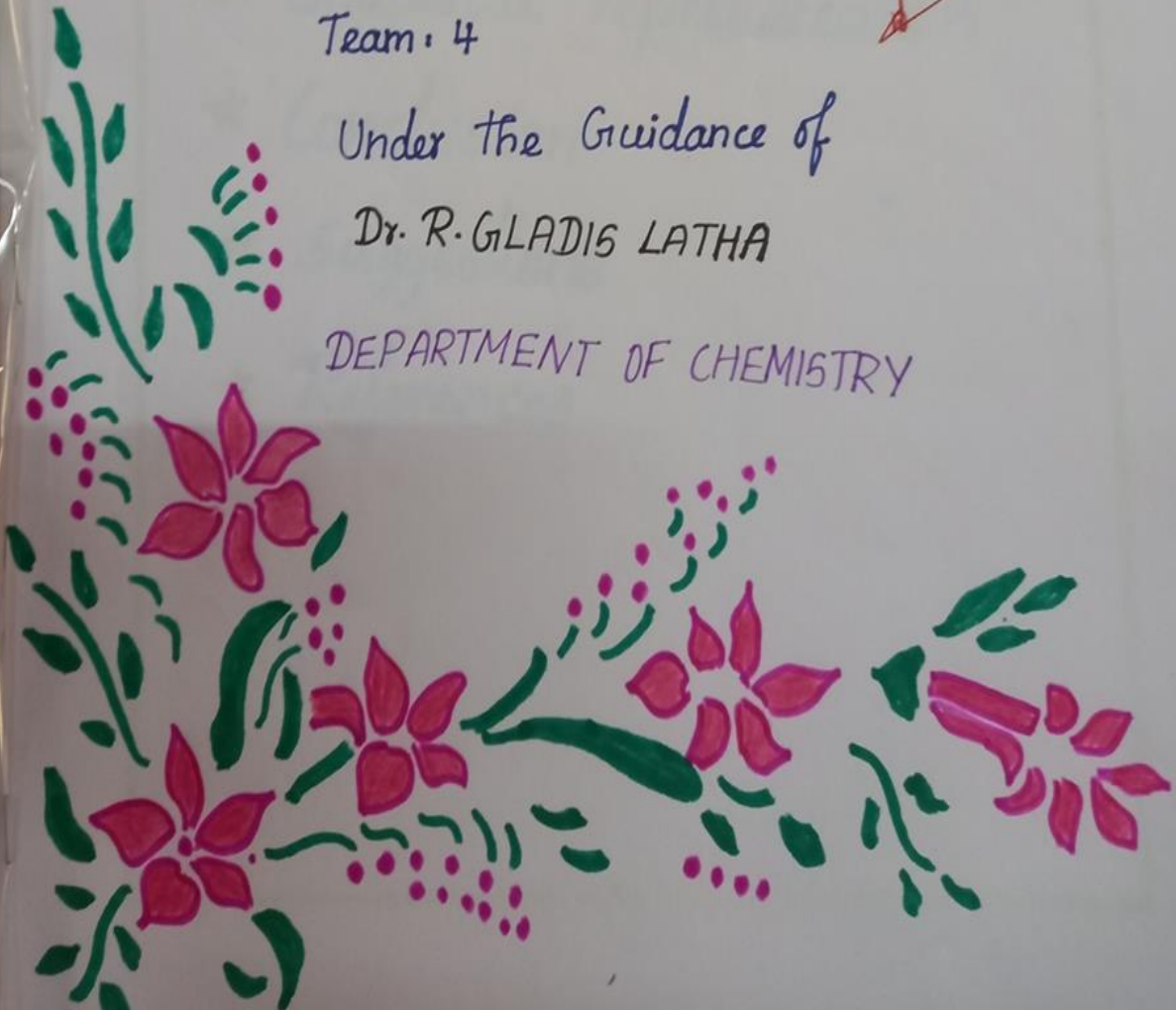
submitted by  
N.D. Nathiya  
[2020AUC097]

Team : 4

Under the Guidance of

Dr. R. GLADIS LATHA

DEPARTMENT OF CHEMISTRY



ENVIRONMENTAL STUDIES  
PROJECT

Impact Of Cell Phone Tower In  
THUCKALAY....

DEPARTMENT OF CHEMISTRY  
HOLY CROSS COLLEGE (AUTONOMOUS)

Submitted by

J. Antony Jathisha.

Team : 06

Under the Guidance of.

Dr. Sheeba Daniel.



# EVS PROJECT

Environmental Pollution & Radioactivity  
caused by a sand mill (Manavalakurichi)

Project report on Environmental Studies  
Submitted by [AEC201]

J. Sherin Bright  
[2020AUC109]

Team : 5

under the Guidance of  
**Dr. Sheeba Daniel**

Holy Cross College (Autonomous)  
(Affiliated by Manonmaniam Sundaranan  
University, Tirunelveli)

(Nagercoil - 629 004)



# Contamination of water bodies due to improper waste disposal

Project report on Environmental studies [ARCSO]

Submitted by

V. Nisha

[2020AUG28TH]

Team : 7

Under the Guidance of

Dr. Shaaba Jeevaraj

HOLY CROSS COLLEGE (AUTONOMOUS)

(Accredited with (A<sup>+</sup>) Grade by NAAC)

(Affiliated by Manonmaniam Sundaranar

University, Tirunelveli

NAGERCOIL - 629 004)

SA

# CONTAMINATION OF WATER BODIES DUE TO IMPROPER WASTE DISPOSAL

- Project on Environmental Studies

Submitted by:

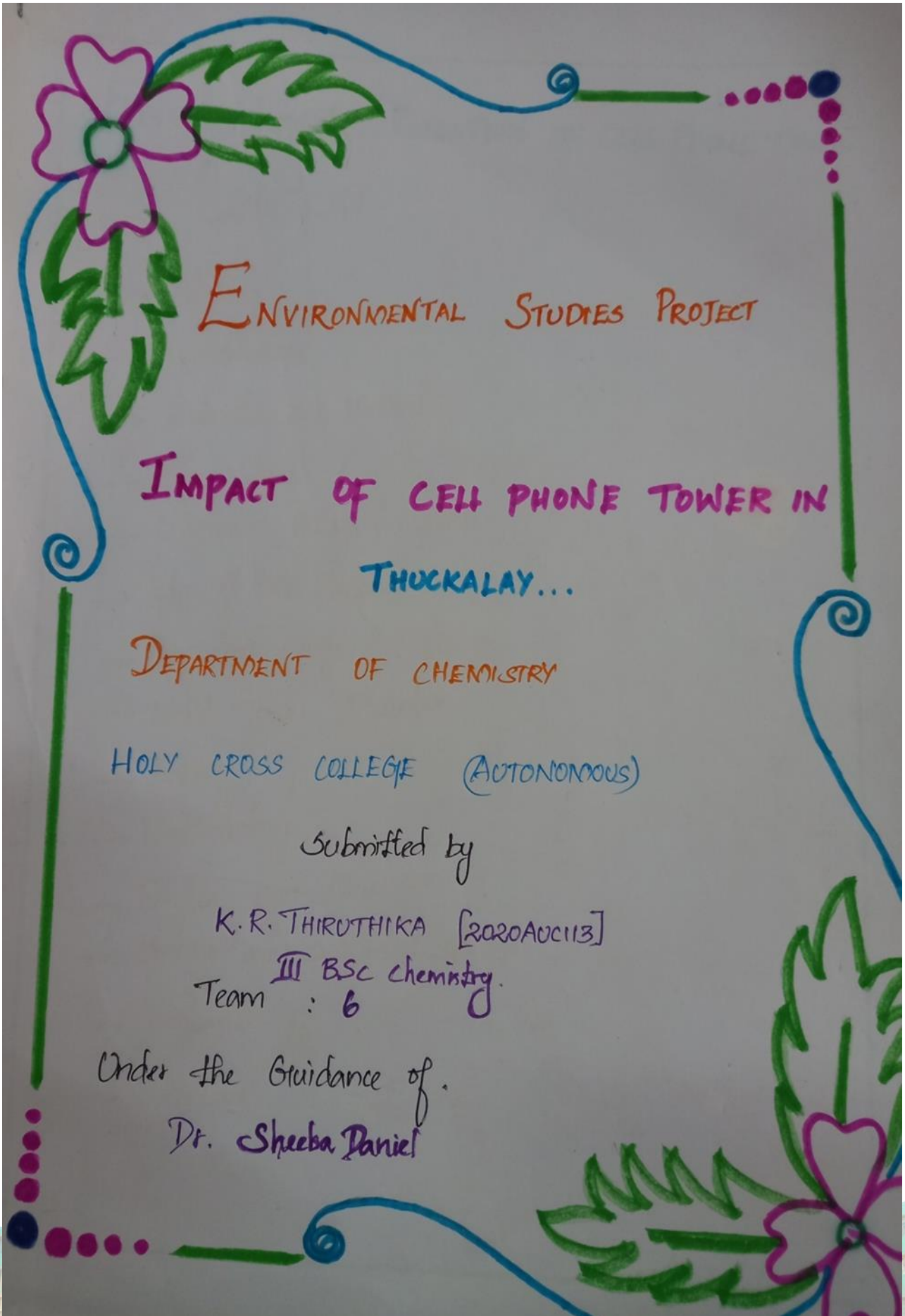
Team No.-7

Devika. P. Jayan

III-B.Sc. Chemistry

Reg. no.- 2020AUC372

Holy Cross College



ENVIRONMENTAL STUDIES PROJECT

IMPACT OF CELL PHONE TOWER IN  
THUCKALAY...

DEPARTMENT OF CHEMISTRY

HOLY CROSS COLLEGE (AUTONOMOUS)

Submitted by

K.R. THIRUTHIKA [2020AUC113]

III BSC Chemistry.  
Team : 6

Under the Guidance of.

Dr. Sheeba Daniel



**DEPARTMENT OF BOTANY**

**IMPORTANCE OF KITCHEN GARDEN**

*Project submitted to the Centre for Environmental Education, Holy Cross College  
(Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University, Tirunelveli  
in Partial fulfillment of the degree of*

**Bachelor of Science**

**In**

**Botany**

**Submitted by**

<b>Name</b>	<b>Reg. No.</b>
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2020AUB139	MUPSERIN FATHIMA, M
2020AUB516	DONALD ABISHA, J
2020AUB120	ABISHA, S
2020AUB532	NISHA, C
2020AUB534	ACKCHIN SEKI, R
2020AUB117	ABETHA, P
2020AUB126	ANSYLIN SUJI, S
2020AUB521	ANTONY NIVINA DEVI, A
2020AUB145	SIVA JOTHY, G



**DEPARTMENT OF BOTANY**

**HOLY CROSS COLLEGE (AUTONOMOUS)**

**NAGERCOIL - 629004**

**FEBRUARY -2022-**

Dr. P. Leema Rose

Assistant Professor

Department of Botany

Holy Cross College, (Autonomous)

Nagercoil – 629004.

### CERTIFICATE

This is to certify that this dissertation entitled "Importance Of Kitchen Garden" submitted to "The Centre for Environmental Education", Holy Cross College, (Autonomous), affiliated to Maronmaniam Sanderasar University for the award of the degree of Bachelor in Botany, is a bonafied work done by the following students during the academic year 2021-2022 under my guidance and supervision and it has not been submitted for the award of any degree, diploma, associatehip or fellowship of any University of Institution.

Place : Nagercoil

Date: 14/11/2022

*Dr. Leema Rose*  
Signature of the Guide

*Aravind*

Dr. A. ANAND AUGUSTUS ARUL, M.Sc., M.Phil., Ph.D.  
Assistant Professor and Head  
Department of Botany  
Holy Cross College (Autonomous)  
Nagercoil - 629004

**DEPARTMENT OF ZOOLOGY**

**A REVIEW ON FOOD ADULTERATION**

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

**BACHELOR OF SCIENCE**

**IN**

**ZOOLOGY**

Submitted by

Ajitha . R.	2020AUZ150
Amala Ancy . A.	2020AUZ152
Aneesha Barvin .N.	2020AUZ153
Ansa Mary . J. M.	2020AUZ154
Antony Jenisha . J.	2020AUZ155
Catherine Agnes . D.	2020AUZ157
Dharshini .T.	2020AUZ158

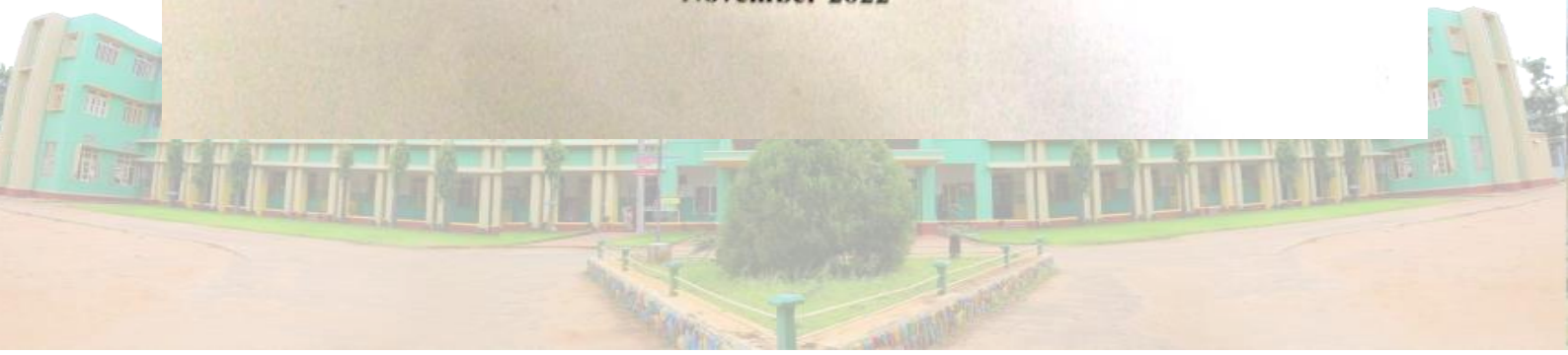


**Department of Zoology**

**Holy Cross College (Autonomous)**

**Nagercoil**

**November 2022**





DECLARATION

We hereby declare that the dissertation entitle "A REVIEW ON FOOD ADULTERATION" submitted to "The Centre for Environmental Education", Holy Cross College (Autonomous), affiliated to Manonmaniam Sundaranar University, for the award of the degree of Bachelor in Zoology is the record of our original and independent research work carried out under the guidance of Dr. X. Venci Candida, M.Sc., B.Ed., M.Phil., Ph.D, Asst. Professor, Department of Zoology, Holy Cross College, Nagercoil and it has not been submitted elsewhere for the award of any other degree or diploma, associateship or fellowship of any University or Institution.

<i>R. Ajitha</i>	Ajitha . R.	2020AUZ150
<i>Amala Anny</i>	Amala Ancy . A.	2020AUZ152
<i>N. Santoshini</i>	Aneesha Barvin .N.	2020AUZ153
<i>Ansa Mary J.M.</i>	Ansa Mary . J. M.	2020AUZ154
<i>Antony Jenisha</i>	Antony Jenisha . J.	2020AUZ155
<i>Catherine Agnes</i>	Catherine Agnes . D.	2020AUZ157
<i>T. Dharshini</i>	Dharshini .T.	2020AUZ158

Place : Nagercoil

Date : 02 . 11 . 2022

**Dr. X. Venci Candida, M.Sc, B.Ed, M.Phil, Ph.D**

Assistant Professor

Department of Zoology

Holy Cross College (Autonomous)

Nagercoil

**CERTIFICATE**

This is to certify that this dissertation entitled "A REVIEW ON FOOD ADULTERATION" submitted to "The Centre for Environmental Education", Holy Cross College (Autonomous), affiliated to Manonmaniam Sundaranar University, for the award of the degree of **Bachelor in Zoology**, is a record of Bonafide work done by the following students (Ajitha . R - 2020AUZ150 , Amala Ancy . A - 2020AUZ152 , Aneesha Barvin .N -2020AUZ153 , Ansa Mary . J. M - 2020AUZ154 , Antony Jenisha .J – 2020AUZ156 , Catherine Agnes . D – 2020AUZ157 , Dharshini .T - 2020QUZ158 ) during the academic year 2022 – 2023 under my guidance and supervision and it has not been submitted for the award of any degree, diploma, associateship or fellowship of any University or institution.

*X.Venci Candida*  
Signature of the guide

**Dr. X. Venci Candida**

**Place: Nagercoil**

**Date: 2.11.2022**





### ACKNOWLEDGEMENT

It gives us immense pleasure to thank the God Almighty for his abundance blessing showered upon us. We express our heartfelt thanks to our parents, relatives for giving the blessing and moral support for the successful completion of our project work.

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**Place: Nagercoil**

**Date: 02.11.2022**

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<i>Aneesha Barvin</i>	Aneesha Barvin .N.	2020AUZ153
<i>Ansa Mary J.M.</i>	Ansa Mary . J. M.	2020AUZ154
<i>Antony Jenisha</i>	Antony Jenisha . J.	2020AUZ155
<i>Catherine Agnes</i>	Catherine Agnes . D.	2020AUZ157
<i>T. Dharshini</i>	Dharshini .T.	2020AUZ158



**ANIMAL BIODIVERSITY IN SERVITE CONVENT, PUNNAI NAGAR,  
KANYAKUMARI DISTRICT**

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

**BACHELOR OF SCIENCE**

**IN**

**ZOOLOGY**

Submitted by

B. Dhiya Roshini	2020AUZ159
D. Dobina Sherin	2020AUZ160
A. Fathima Nishana	2020AUZ161
G. K. Gaaniga	2020AUZ162
C. Hilda Savarina	2020AUZ163
V. Jayashree	2020AUZ164



**Department of Zoology  
Holy Cross College (Autonomous)  
Nagercoil  
November 2022**

**Dr. X. Venci Candida, M.Sc, B.Ed, M.Phil, PhD**

Asst. Professor

Department of Zoology

Holy Cross College (Autonomous)

Nagercoil

**CERTIFICATE**

This is to certify that this dissertation entitled "ANIMAL BIODIVERSITY IN SERVITE CONVENT, PUNNAI NAGAR, KANYAKUMARI DISTRICT" submitted to "The Centre for Environmental Education", Holy Cross College (Autonomous), affiliated to Manonmaniam Sundaranar University, for the award of the degree of Bachelor in Zoology, is a record of Bonafide work done by the following students (Dhiya Roshini B- 2020AUZ159, Dobina Sherin D- 2020AUZ160, Fathima Nishana A - 2020AUZ161, Gaaniga G K - 2020AUZ162, Hilda Savarina C- 2020AUZ163 and Jayashree V- 2020AUZ164) during the academic year 2022 – 2023 under my guidance and supervision and it has not been submitted for the award of any degree, diploma, associateship or fellowship of any University or institution.

*X. Venci Candida*

Signature of the guide

**Dr. X. Venci Candida**

**Place: Nagercoil**

**Date: 2.11.2022**



**ACKNOWLEDGEMENT**

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With real pleasure, I record our indebtedness to the sisters of Servite Convent, Punnai Nagar for their kind Co-operation in collecting the necessary data.

**Place: Nagercoil**

**Date: 02/11/2022**

B. Dhiya Roshini	B. Dhiya Roshini	2020AUZ159
D. Dobina Sherin	D. Dobina Sherin	2020AUZ160
A. Fathima Nishana	A. Fathima Nishana	2020AUZ161
G. K. Gaaniga	G. K. Gaaniga	2020AUZ162
C. Hilda Savarina	C. Hilda Savarina	2020AUZ163
V. Jayashree	V. Jayashree	2020AUZ164



**DECLARATION**

We hereby declare that the dissertation entitled "ANIMAL BIODIVERSITY IN SERVITE CONVENT, PUNNAI NAGAR, KANYAKUMARI DISTRICT", submitted to "The Centre for Environmental Education", Holy Cross College (Autonomous), affiliated to Manonmaniam Sundaranar University, for the award of the degree of **Bachelor in Zoology** is the record of our original and independent research work carried out under the guidance of **Dr. X. Venci Candida**, M.Sc., B.Ed., M.Phil., Ph.D, Asst. Professor, Department of Zoology, Holy Cross College, Nagercoil and it has not been submitted elsewhere for the award of any other degree or diploma, associateship or fellowship of any University or Institution.

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G. K. Gaaniga	G. K. Gaaniga	2020AUZ162
C. Hilda Savarina	C. Hilda Savarina	2020AUZ163
V. Jayashree	V. Jayashree	2020AUZ164

**Place : Nagercoil**

**Date : 02/11/2022**



**A SURVEY ON NATURAL HOME REMEDIES IN TREATING COMMON ILLNESS**

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

**BACHELOR OF SCIENCE**

**IN**

**ZOOLOGY**

Submitted by

Jebisha J S	2020AUZ166
Jenif J	2020AUZ167
Jenifer J S	2020AUZ168
Juli Jefrith A	2020AUZ169
Kaavya R	2020AUZ170
Lincy G	2020AUZ171



**Department of Zoology**  
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**Nagercoil**  
**November 2022**



## DECLARATION

We hereby declare that the dissertation entitled "A Survey on Natural Home Remedies In Treating Common Illness" submitted to "The Centre for Environmental Education", Holy Cross College (Autonomous), affiliated to Manonmaniam Sundaranar University, for the award of the degree of Bachelor in Zoology is the record of our original and independent research work carried out under the guidance of **Dr. X. Venci Candida, M.Sc., B.Ed., M.Phil., Ph.D**, Asst. Professor, Department of Zoology, Holy Cross College, Nagercoil and it has not been submitted elsewhere for the award of any other degree or diploma, associateship or fellowship of any University or Institution.

	Jebisha J S	2020AUZ166
	Jenif J	2020AUZ167
	Jenifer J S	2020AUZ168
	Juli Jefrith A	2020AUZ169
	Kaavya R	2020AUZ170
	Lincy G	2020AUZ171

**Place: Nagercoil**

**Date: 02.11.2022**



**Dr. X. Venci Candida, M.Sc, B.Ed, M.Phil, PhD**

Asst. Professor

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Holy Cross College (Autonomous)

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**CERTIFICATE**

This is to certify that this dissertation entitled "A Survey on Natural Home Remedies In Treating Common Illness" submitted to "The Centre for Environmental Education", Holy Cross College (Autonomous), affiliated to Manonmaniam Sundaranar University, for the award of the degree of Bachelor in Zoology, is a record of Bonafide work done by the following students (Jebisha J S - 2020AUZ166, Jenif J - 2020AUZ167, Jenifer J S - 2020AUZ168, Juli Jefrith A - 2020AUZ169, Kaavya R - 2020AUZ170 and Lincy G - 2020AUZ171) during the academic year 2022 - 2023 under my guidance and supervision and it has not been submitted for the award of any degree, diploma, associateship or fellowship of any University or institution.

*X. Venci Candida*

Signature of the guide

**Dr. X. Venci Candida**

**Place: Nagercoil**

**Date: 2.11.2022**

### ACKNOWLEDGEMENT

It gives us immense pleasure to thank the God Almighty for his abundance blessing showered upon us. We express our heartfelt thanks to our parents, relatives for giving the blessing and moral support for the successful completion of our project work.

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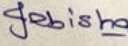
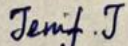
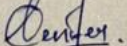
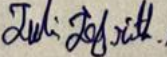
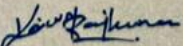
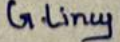
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	Jebisha J S	2020AUZ166
	Jenif J	2020AUZ167
	Jenifer J S	2020AUZ168
	Juli Jefrith A	2020AUZ169
	Kaavya R	2020AUZ170
	Lincy G	2020AUZ171



**Methods of waste disposal followed in a selected village in Kanyakumari district**

*Project submitted to the Centre for Environmental Education, Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University, Tirunelveli in partial fulfilment of the degree of*

**BACHELOR OF SCIENCE**

**IN**

**ZOOLOGY**

submitted by

<b>Puspa Rishwana.K</b>	<b>2020AUZ181</b>
<b>Rabekha.V</b>	<b>2020AUZ182</b>
<b>Rashmi.V.S</b>	<b>2020AUZ183</b>
<b>Rathesha.V</b>	<b>2020AUZ184</b>
<b>Reshma.H</b>	<b>2020AUZ185</b>
<b>Riya Breeze. J.S</b>	<b>2020AUZ186</b>
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Department of Zoology  
Holy Cross College (Autonomous)  
Nagercoil  
November 2022



### DECLARATION

We hereby declare that the dissertation entitled "**Methods of waste disposal followed in a selected village in Kanyakumari district**" submitted to "**The Centre for Environmental Education**", Holy Cross College (Autonomous), affiliated to Manonmaniam Sundaranar University, for the award of the degree of Bachelor in Zoology is the record of our original and independent research work carried out under the guidance of **Dr. Jeni Chandar Padua M.Sc., M.A., B.Ed., M.Phil., SET, Ph.D.**, Asst. Professor, Department of Zoology, Holy Cross College, Nagercoil and it has not been submitted elsewhere for the award of any other degree or diploma, associateship or fellowship of any University or Institution.

Puspa Rishwana.K	2020AUZ181	Rishwana.k
Rabekha.V	2020AUZ182	Rabekha.V
Rashmi.V.S	2020AUZ183	Rashmi.V.S
Rathesha.V	2020AUZ184	Rathesha.V
Reshma.H	2020AUZ185	Reshma.H
Riya Breeze. J.S	2020AUZ186	Riya Breeze
Sahaya Shalu.S	2020AUZ187	S. Shalu.

Place: Nagercoil

Date: 02/11/2022

**Dr. Jeni Chandar Padua, M.Sc, M.A., B.Ed., M.Phil., SET, Ph.D.**

Asst. Professor

Department of Zoology

Holy Cross College (Autonomous)

Nagercoil

**CERTIFICATE**

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**Dr. Jeni Chandar Padua**

Signature of the guide

Place: Nagercoil

Date: 02/11/2022



ACKNOWLEDGEMENT

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Puspa Rishwana.K	2020AUZ181	Rishwana. K
Rabekha.V	2020AUZ182	Rabekha.V.
Rashmi.V.S	2020AUZ183	Rashmi.V.S.
Rathesha.V	2020AUZ184	Rathesha.V.
Reshma.H	2020AUZ185	Reshma.H
Riya Breeze. J.S	2020AUZ186	Riya Breeze
Sahaya Shalu.S	2020AUZ187	S. Shalu.



**DOCUMENTATION OF MEDICINAL PLANTS IN KURUSADY  
VILLAGE**

*Project submitted to the Centre for Environmental Education, Holy Cross College  
(Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University, Tirunelveli in  
partial fulfilment of the degree of*

**BACHELOR OF SCIENCE**

**IN**

**ZOOLOGY**

submitted by

Mary Ajisha S	2020AUZ172
Mary Bramisha P	2020AUZ174
Mercy Jenifer R J	2020AUZ176
Mercy C	2020AUZ177
Mic Salomiya A	2020AUZ178
Michelle Aquilera Costa G K	2020AUZ179



Department of Zoology  
Holy Cross College (Autonomous)  
Nagercoil  
November 2022

**Dr. Jeni Chandar Padua, M.Sc., M.A., B.Ed., M.Phil., S.E.T., Ph.D.**

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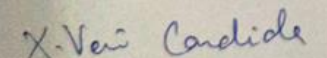
**CERTIFICATE**


This is to certify that this dissertation entitled "**Documentation of Medicinal Plants in Kurusady Village**" submitted to "**The Centre for Environmental Education**", Holy Cross College (Autonomous), affiliated to Manonmaniam Sundaranar University, for the award of the degree of Bachelor in Zoology, is a record of Bonafide work done by the following students (**Mary Ajisha S – 2020AUZ172, Mary Bramisha P – 2020AUZ174, Mercy Jenifer R J - 2020AUZ176, Mercy C - 2020AUZ177, Mic Salomiya A - 2020AUZ178 and Michelle Aquilera Costa G K – 2020AUZ179**) during the academic year 2022 – 2023 under my guidance and supervision and it has not been submitted for the award of any degree, diploma, associateship or fellowship of any University or institution.

Place: Nagercoil

Date: 2-11-2022

  
Signature of the guide

  
Signature of the Examiner

  
Signature of the Head of the Department

**Dr. F. BRISCA RENUGA**  
HOD - Department of Zoology  
Holy Cross College  
Nagercoil - 629 004



### DECLARATION

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Mary Ajisha S	2020AUZ172	S. Mary Ajisha
Mary Bramisha P	2020AUZ174	P. Mary Bramisha
Mercy Jenifer R J	2020AUZ176	R. J. Mercy
Mercy C	2020AUZ177	C. Mercy
Mic Salomiya A	2020AUZ178	A. Salomiya
Michelle Aquilera Costa G K	2020AUZ179	Michelle

Place: Nagercoil

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Place: Nagercoil

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Mary Ajisha S	2020AUZ172 S. Mary Afisha
Mary Bramisha P	2020AUZ174 P. Mary Branisha
Mercy Jenifer R J	2020AUZ176 R. J. Mercy
Mercy C	2020AUZ177 C. Mercy
Mic Salomiya A	2020AUZ178 A. Salomiya
Michelle Aquilera Costa G K	2020AUZ179 Michelle



**DOCUMENTATION OF THE NATURE RESERVES OR TOURIST SPOTS  
OF THE KANYAKUMARI DISTRICT**

*Project submitted to the Centre for Environmental Education, Holy Cross College  
(Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University, Tirunelveli in  
partial fulfilment of the degree of*

**BACHELOR OF SCIENCE**

**IN**

**ZOOLOGY**

submitted by

Santhiya R.P	2020AUZ188
Shahana Sherin.H	2020AUZ189
Suganya. S	2020AUZ190
Tresina. L	2020AUZ193
Pavithra. S	2020AUZ380
Resma Matto.V	2020AUZ500
Anu.K	2021AUZ001



Department of Zoology  
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November 2022



Dr. Jeni Chandar Padua, M.Sc, M.A., B.Ed., M.Phil., SET, Ph.D.

Asst. Professor

Department of Zoology

Holy Cross College (Autonomous)

Nagercoil

CERTIFICATE

This is to certify that this dissertation entitled "Documentation of the nature reserves or tourist spots of the Kanyakumari district" submitted to "The Centre for Environmental Education", Holy Cross College (Autonomous), affiliated to Manonmaniam Sundaranar University, for the award of the degree of Bachelor in Zoology, is a record of Bonafide work done by the following students (Santhiya R.P - 2020AUZ188, Shahana Sherin.H - 2020AUZ189, Suganya.S - 2020AUZ190, Tresina.L - 2020AUZ193, Pavithra.S - 2020AUZ380, Resma Matto.V - 2020AUZ500 and Anu.K - 2021AUZ001) during the academic year 2022 - 2023 under my guidance and supervision and it has not been submitted for the award of any degree, diploma, associateship or fellowship of any University or institution.

Place: Nagercoil

Date: 02 - 01 - 2022

X. Venu Candidate  
Signature of the Examiner

  
Signature of the guide

  
Signature of the Head of the Department

Dr. F. BRISCA RENUGA  
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Dr. F. BRISCA RENUGA  
HOD - Department of Zoology  
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Nagercoil - 629 004



## DECLARATION

We hereby declare that the dissertation entitled “**Documentation of the nature reserves or tourist spots of the Kanyakumari district** ” submitted to “**The Centre for Environmental Education**”, Holy Cross College (Autonomous), affiliated to Manonmaniam Sundaranar University, for the award of the degree of Bachelor in Zoology is the record of our original and independent research work carried out under the guidance of **Dr. Jeni Chandar Padua M.Sc., M.A., B.Ed., M.Phil., SET, Ph.D**, Asst. Professor, Department of Zoology, Holy Cross College, Nagercoil and it has not been submitted elsewhere for the award of any other degree or diploma, associateship or fellowship of any University or Institution.

Santhiya R.P	2020AUZ188	R.P.Santhiya
Shahana Sherin.H	2020AUZ189	Shahana Sherin.H
Suganya.S	2020AUZ190	S.Suganya
Tresina.L	2020AUZ193	Tresina.L
Pavithra.S	2020AUZ380	S.Pavithra
Resma Matto.V	2020AUZ500	Resma Matto.V
Anu.K	2021AUZ001	Anu.k

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Date: 02 - 11 - 2022

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Anu.K

2020AUZ188 R.P. Santhiya.

2020AUZ189 Shahana Sherin. H

2020AUZ190 S. Suganya

2020AUZ193 Tresina. L

2020AUZ380 S. Pavithra

2020AUZ500 Resma Matto. V

2021AUZ001 Anu. K



**DEPARTMENT OF COMPUTER SCIENCE**

**HOLY CROSS COLLEGE(Autonomous)  
NAGERCOIL-629 004.**



**ENVIRONMENTAL STUDIES**

**TITLE OF THE PROJECT: AIR POLLUTION IN NAGERCOIL**

**DEPARTMENT OF COMPUTER SCIENCE**

**Submitted by**

**Jalofin.J(2020SUS057)**

**Jasnitha.J(2020SUS058)**

**Jence John(2020SUS059)**

**Jersha.J(2020SUS060)**

**Johns Anisha.J(2020SUS061)**

**Kamalirja.K(2020SUS062)**

**November-2022**



## DECLARATION

*hh*  
I hereby declare that the project titled "Air Pollution in Nagercoil". This is the group project with secondary data collection which was done by our group members.

### Project Members:

Jalofin.J *Jalob*

Jasnitha.J *J.Jasnitha*

Jence John *Jence John*

Jersha.J *J.Jersha*

Johns Anisha.J *Anisha J*

Kamaliirja.K *Kamali*

## CERTIFICATE

This to certify that the project report titled "Air Pollution In Nagercoil". This report is done by Jalofin.J(2020SUS057), Jasnitha.J(2020SUS058), Jence John(2020SUS059), Jersha.J(2020SUS060), Johns Anisha.J(2020SUS061), Kamalirja.K(2020SUS062), III Bsc Computer Science of Holy Cross College(Autonomous), Nagercoil during the academic year 2022-2023.

*F. Jansky*  
Internal Examiner

*M. Nithya David*  
External Examiner

Date: 08.11.2022

Place : Nagercoil

**HOLY CROSS COLLEGE(AUTONOMOUS)**

Nagercoil - 629004



**ENVIROMENTAL STUDIES**

**TITLE OF THE PROJECT**

Description of Creation of God

**DEPARTMENT OF COMPUTER SCIENCE**

Submitted By

M.Kemi - (2020SUS064)

S. Kitheri Nishoni- (2020SUS065)

M. Kensia - (2020SUS066)

J. Libisha Jeni - (2020SUS067)

S. Mabini - (2020SUS068)

J.Maria Nesam Rashiba - (2020SUS069)

**CLASS: III B.SC COMPUTER SCIENCE**

**NOVEMBER-2022**



## DECLARATION

We have here by declare that the project report titled **"DESCRIPTON  
OF CREATION OF GOD"** .This is the Group project with secondary  
data collection which was done by us.

### Signature of the Students

M.Kemi - *Kemi.M.*  
S. Kitheri Nishoni - *Kitheri Nishoni*  
M. Konsia - *Konsia*  
J. Libisha Jeni - *Libisha*  
S. Mabini - *Mabini*  
J.Maria Nesam Rashiba - *Rashiba*

**CERTIFICATE**

This is to certify that project report titled **"DESCRIPTION OF CREATION OF GOD"** is the bonafide work done by M.KEMI , S.KITHERI NISHONI , M.KONSIA ,J.LIBISHA JENI , S.MABINI , J.MARIA NESAM RASHIBA in the partial fulfilment for the award of the degree, B.Sc Computer Science by Manonmaniam Sundaranar University during the academic year 2022-2023.

*J. Jeyaraj*  
Internal Examiner

*M. Nithile David*  
External Examiner

Place: *Nagasaki*

Date: *8/11/22*

HOLY CROSS COLLEGE (AUTONOMOUS)

Nagercoil-629004



ENVIRONMENTAL STUDIES

*Title of the Project: Natural Disaster of Tsunami*

DEPARTMENT OF COMPUTER SCIENCE

Submitted by

MaryRishana C (2020SU S070)

Mary Shanu (2020SU S071)

Noor shaitha Dheena J(2020SUS072)

Perchi Charles C (2020SUS073)

Pon Sinthu k (2020SUS074)

Priya Dharshini (2020SUS075)

November - 2022



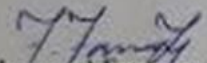
DECLARATION

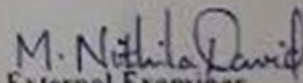
We hereby declare that the project report titles "Natural Disaster of Tsunami" This is the group project with secondary data collection which was done by our team.

Mary Rishana C - Rishana.C  
Mary Shanu - Mary Shanu.C  
Noor shaiha Dheena J - Noor Shaiha Dheena.J  
Perchi Charles C - Perchi.C  
Pon Sinthu k - Sinthu.  
Priya Dharshini - Dharshini  
Signature of student

CERTIFICATE

This is to certify that the project report titled "Natural Disaster of Tsunami" This project is done by), Mary Rishana C(2020SUS070), Mary Shanu(2020SUS071), Noor Sharitha Dheena J(2020SUS072), Perchi Charles C(2020SUS073), Pon Sinthu K(2020SUS074), Priya Dharshini S(2020SUS075) III B.Sc., Computer Science of Holy Cross College (Autonomous) Nagercoil.

  
Internal Examiner

  
External Examiner

Place: nagercoil

Date: 8/11/2022

HOLY CROSS COLLEGE  
(AUTONOMOUS) NAGERCOIL

Re-accredited with 'A+' Grade (CGPA 3.35) by NAAC



ENVIRONMENTAL STUDIES

*Title of the Project: Water Pollution in Nagercoil*

DEPARTMENT OF COMPUTER SCIENCE

Submitted by

Priyadharsini.T (2020SUS076)

Rafeeka Sherin.M (2020SUS077)

Renisha.S (2020SUS078)

Rocini Shaliga.R (2020SUS079)

Rofeena.R (2020SUS080)

Ronicka Abinaya.M (2020SUS081)

November - 2022



### DECLARATION

We hereby declare that the project report titled "Water Pollution in Nagercoil" This is the group project with secondary data collection which was done by our team.

Place: Nagercoil

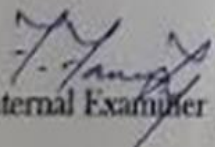
Date: 08/11/2022

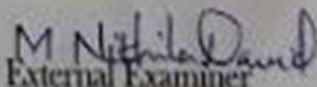
### SIGNATURE

S. Ronisha	S. Ronisha
M. Priyadharsini	T. R. P.
M. Rajesha Shrin	Rajesha M.
P. Rocini Shaliga	Shamirya P.
P. Rajesha	Rajesha R.
M. Ronisha Aluraya	Ronisha...

CERTIFICATE

This is to certify that the project report titled "Water Pollution in Nagercoil" This project is done by Priyadharsini.T (2020SI/S076), Rafeeka Sherin.M (2020SI/S077), Renisha.S (2020SI/S078), Rocini Shaluga.R (2020SI/S079), Rojcena.R (2020SI/S080), Ronicka Abinaya.M (2020SI/S081), III B.Sc.,Computer Science of Holy Cross College (Autonomous) Nagercoil.

  
Internal Examiner

  
External Examiner

DEPARTMENT OF ENGLISH

EVS

Project

Topic: Bacteria's in our Environment Enhancement.

Submitted by :

V. S. Jenisha

A. Kristen Jovina

Jincy S. Kumar

P. Maxwell

Rishobi

J. Joshia

Signature of the Supervisor



## BACTERIA'S IN OUR ENVIRONMENT ENHANCEMENT

### INTRODUCTION :

The first impression for bacteria is bad, but when we explore the study of bacteria, it has both harmful and beneficial kind of bacteria's. Most of the beneficial bacteria are found in the human digestive system. When we consider bacteria's importance, it is a vast topic. But as we are talking about the Bacteria's role in Environment, we came to know about its hidden treasure. Bacteria is like a treasure, we should secure them as it plays an important role in our Environment. They help degrade dead animals and plants and bring valuable nutrients to earth. Some of them help harmful pollutants out of the environment in a process called bioremediation. Bacteria are required to maintain a healthy environment. In the following topic, we are going to explore new bacteria's which is not so popular but used by us for our environment.



# EVS PROJECT

Done by,

1. Ansha legency Ansha Legency
2. Anu Dixcy A. Anu Dixcy
3. Anushiya J. Anushiya
4. Arul Jency N. Arul Jency
5. Ashmica Ashmica . Nib.
6. Ashwini A. Ashwini

III BA English  
Literature (Aided).

V. Vaitty  
Signature of the Supervisor

INDIAN  
RARE  
EARTH  
LIMITED





## Introduction :

There are many disasters which affects our beautiful Earth. Some of them are tsunami, earthquake, flood, cyclone, Landolides, volcanic eruption and so on.

One of the major disasters which affect the earth and the people is the Indian Rare Earth Limited. Now let us

See the history, the advantage and disadvantage of the **MANAVALARKURICHY** Indian Rare Earth Limited.

## Formation and uses of sanddunes :

Dune is a mound of sand formed by the wind, usually along the beach



# EVS PROJECT

Done by :

Abirami . M Akirami

Agnel Manthiya . S Agnel

Ajina . A Ajina

Akshaya . R Akshaya

Amala Prishma . P Amala

Any Niruba . J Any Niruba

V. Vailthy  
Signature of the Supervisor

## Waste Management Service in Valampurivillai.

### Introduction:

Waste management is planned to reduce the adverse effects of waste on human health, environment etc... To reduce the dangerous effects of waste on human and environment is the aim of waste management. Refuse, Reduce, Reuse, Repurpose, Recycle are the 5R's of waste management. Here is the case study of waste management service in Valampurivillai.

Nagercoil city has 52 wards, because of high rise in population people used to pour all the wastes in road side or some other places. That wastes are collected in Valampurivillai. It is survived that totally number tons of waste is collected for per day. While collecting those wastes each and every day, the collected wastes seems to the, be a mountain it gives an unpleasant smell but near the place there are many families were living, and has many hotels, mart etc... so by the harmness



## CASE STUDY

Plants with medical values that can be grown in any environments were planted in household for medical emergency which may emerge in the future. And the herbal plants are grown in the house due to medical value and for its capacity to grow using the available resource.

### Members

A. Dhanyaa	A. <u>Dhanyaa</u>
A. Claret Lydia	A. <u>Lydia</u>
J. Beydin Libisha	
T. Brindha	T. <u>Brindha</u>
C. Barshi	C. <u>Barshi</u>
F. S. Bershene	F. S. <u>Bershene</u>

All the members were asked to study the nature of the plants' with medical value in their houses and the method of usage and their medical values

V. Vaitty  
Signature of the Supervisor

## BETEL LEAF :

Botanical Name : *Vernonia amygdalina*

Betel leaf is also available for different health Issues. It has numerous health benefits good for the skin, acidity problems, cold cough, constipation problem, hair care and Acne problem. It is also good for pregnant women and used in Ayurveda Treatment also.

## USES AND METHOD OF USAGE :

1. It increases the metabolic Rate of the body and reduces the body weight
2. Add 10 to 12 Betel leaves in water boil it well and add honey in that water drink it continuously. It cures the Cancer.
3. If we are suffering from a severe Headache, Betel leaves can come to our Rescue, The leaves have cooling properties which provide Instant Relief.
4. Betel leaves are useful for curing many diseases like diabetes, cholesterol, asthma, Depression, oral health and Cancer.
5. Eating the Betel leaves in daily morning cures the cancer.
6. It has more Antimicrobial Properties.
7. It easily Remove the Unwanted wastages from our body.

**DEPARTMENT OF ENGLISH (SF)**

Project Report for Environmental studies

*Deforestation*

PROJECT SUBMITTED TO

**Holy Cross College (Autonomous) Nagercoil**

**Affiliated To Manonmaniam Sundaranar University, Tirunelveli**

Submitted by

Name	Reg No.
Adheeba .A.L	2020SUE089
Arockiya Jency. A	2020SUE098
Jose Ani Sofia.J	2020SUE0115
Maria Enit.A	2020SUE0120
Maria Tina.J	2020SUE0121
Shami Rosy .S.T	2020SUE138

Under the guidance of

**Ms. J. ANUSHA SNOWLY M.A., NET**



**Department of English (Self-Financed)  
Holy Cross College (Autonomous), Nagercoil November 2022**



CERTIFICATE

This is to certify that the project entitled *Deforestation*  
III B.A English Literature is a research work done during 2022 under my supervision  
and guidance and that the project report 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.

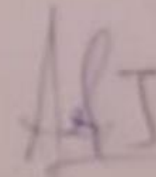
PLACE: Nagercoil

DATE: November 2022



Head of the Department

(Mrs. M. Maria Helen Janoba)



Guide

(Ms. J. Anusha Snowly)

Project Report for Environmental Studies

Studies on Plastic Pollution

PROJECT SUBMITTED TO

**Holy Cross College (Autonomous) Nagercoil**

**Affiliated To Manonmaniam Sundaranar University, Tirunelveli**

Submitted by

Name	Reg No.
Afra Marcy M	2020SUE091
Ashima Fathima A	2020SUE099
Dharsi J	2020SUE110
Mary Elizabeth Rani M	2020SUE122
Mishanu Rose Renisha M	2020SUE127

Under the guidance of

**Ms. J. ANUSHA SNOWLY M.A., NET**



**Department of English (Self-Financed)**

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

**November 2022**

CERTIFICATE

This is to certify that the project entitled Studies on Plastic Pollution III B.A English Literature is a research work done during 2022 under my supervision and guidance and that the project report 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.

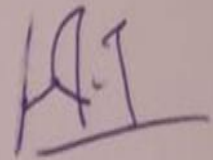
PLACE: Nagercoil

DATE: November 2022



Head of the Department

(Mrs. M. Maria Helen Janoba)



Guide

(Ms. J. Anusha Snowly)



Project Report For Environmental Studies

*Medical waste Management*

PROJECT SUBMITTED TO

**Holy Cross College (Autonomous) Nagercoil**

**Affiliated To Manonmaniam Sundaranar University, Tirunelveli**

Submitted by

<b>Name</b>	<b>Reg No.</b>
<b>Ajina. J</b>	<b>2020SUE093</b>
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<b>Dhivya. J</b>	<b>2020SUE111</b>
<b>Jefferin Nice.J</b>	<b>2020SUE114</b>
<b>Mini Abisha. A</b>	<b>2020SUE126</b>
<b>Renikha Lettish. R.T</b>	<b>2020SUE136</b>
<b>Abisha. M</b>	<b>2020SUE442</b>

Under the guidance of

**Ms. J. ANUSHA SNOWLY M.A., NET**



**Department of English (Self-Financed)**

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

**November 2022**

**CERTIFICATE**

This is to certify that the project entitled *Medical Waste Management* III B.A. English Literature is a research work done during 2022 under my supervision and guidance and that the project report 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 2022



Head of the Department

(Mrs. M. Maria Helen Janoba)



Guide

(Ms. J. Anusha Snowly)

Project Report for Environmental Studies

*Awareness of Napkin*

PROJECT SUBMITTED TO

**Holy Cross College (Autonomous) Nagercoil**

**Affiliated To Manonmaniam Sundaranar University, Tirunelveli**

Submitted by

Name	Reg. No
Archana Devi B	2020SUE088
Ashni Leu J. F	2020SUE101
Asmi Reath	2020SUE102
Dharshini J	2020SUE292
Rajabavatharani R	2020SUE133
Sindhu R. U	2020SUE142

Under the guidance of

**Ms. J. ANUSHA SNOWLY MA., NET**



**Department of English (Self-Financed)**  
**Holy Cross College (Autonomous), Nagercoil**

**November 2022**



CERTIFICATE

This is to certify that the project entitled *Awareness of Napkin* III BA English Literature is a research work done during 2022 under my supervision and guidance and that the project report 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.

Archana Devi B	2020SUE088
Ashni Leu J. F	2020SUE101
Asmi Reath X	2020SUE102
Dharshini J	2020SUE292
Rajabavatharani R	2020SUE133
Sindhu R. U	2020SUE142

PLACE: Nagercoil

DATE: November 2022



Head of the Department

(Mrs. M. Maria Helen Janoba)



Guide

(Ms. J. Anusha Snowly)

DEPARTMENT OF TAMIL

இளங்கலை மூன்றாம் ஆண்டு தமிழ் இலக்கியம்

சுற்றுச்சூழல் கல்வி

திட்ட கட்டுரை

கட்டுரையாளர்கள்	பதிவுஎண்
து.ஆஷிகா	2020SUT152
ஜா. ஜா.பிணி ரோஸ்	2020SUT154
அ.லிபிஷா	2020SUT157
சி.த.சகி	2020SUT163

மேற்பார்வையாளர்

முனைவர் சி.ஆன்சி மோள்

தமிழ்துறை( சுயநிதி )



திருச்சிலுவைக் கல்லூரி

நாகர்கோவில்-629004

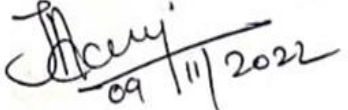
நவம்பர்-2022

மேற்பார்வையாளர் சான்றிதழ்

இளங்கலை முன்றாமாண்டு தமிழ் இலக்கியம்  
சுற்றுச்சூழல் கல்விக்காக “கண்ணியாகுமரி மாவட்டத்தில்  
உள்ள பல்லுயிரிகள் பற்றிய ஆய்வு” என்னும்  
தலைப்பில் அமைந்த திட்டக்கட்டுரை சூ. ஆதிகா,  
ஐ. ஜா.:பிணி றோஸ், அ.லிபிஷா, சி.ந. சகி  
ஆகியோரால் குடிவாக வசய்யப்பட்டது, என்று  
சான்றளிக்கிறேன்.

  
சுறைத்தலைவர்

முனைவர் சி. ஆன்சி மோன்

  
மேற்பார்வையாளர்

முனைவர் சி. ஆன்சி மோன்

கிடம் : நாகர்கோவில்,

நாள் : 09.11.2022 .



## கட்டுரையாளர்கள் உறுதிமொழி

சற்றுச்சூழல் கல்விக்கான "கண்ணியாகமரி  
மாவட்டத்தில் உள்ள பல்வயிரிகள் பற்றிய ஆய்வு"  
என்னும் தலைப்பில் எழுதப்பட்ட இத்திட்டக்கட்டுரை  
எங்களின் முழு முயற்சியால் உருவானது என்று  
உறுதியளிக்கிறோம்.

கட்டுரையாளர்கள்

சு. ஆஷிகா

ஐ. ஜா. பிணி ரோஸ்

சி. லிபிஜா

சி. த. சகி

கையாப்பம்

சு. ஆஷிகா

ஐ. ஜா. பிணி ரோஸ்

சி. லிபிஜா

சி. த. சகி.



இளங்கலை மூன்றாம் ஆண்டு தமிழ் இலக்கியம்  
சுற்றுச்சூழல் கல்வி

திட்டக் கட்டுரை

கட்டுரையாளர்கள்	பதிவுஎண்
அ.அன்ஷியா மேரி	191162
ஜே.சரண்யா	2020SUT006
ப.மரிய பெளர்ணா	2020SUT159
பெ.கேத்தரின் லூசி	2020SUT293

முனைவர் சி.ஆன்சி மோள்  
தமிழ்துறை ( சுயநிதி )



திருச்சிலுவைக் கல்லூரி

நாகர்கோவில்-629004

நவம்பர்-2022

கட்டுரையாளர் உறுதிமொழி

சுற்றுச்சூழல் கல்விக்கான "கன்னியாகுமரி  
மாவட்டத்தில் உள்ள கியற்கை வளங்கள்"  
என்னும் தலைப்பில் எழுதப்பட்ட அத்திட்டக்  
கட்டுரை எங்களின் முழுமையற்ற  
உருவானது என்று உறுதியளிக்கிறோம்.

கட்டுரையாளர்கள்

கையொப்பம்

அ. அன்னை மெரி

அ. அன்னை மெரி

கே. சரணியா

கே. சரணியா.

ப. மரிய வெள்ளா

ப. மரிய வெள்ளா

பெ. கந்தனின் சூசி

பெ. கந்தனின் சூசி





இளங்கலை மூன்றாம் ஆண்டு தமிழ் இலக்கியம்  
சுற்றுச் சூழல் கல்வி

திட்ட கட்டுரை

கட்டுரையாளர்கள்	பதிவு எண்
வி.ரா.அபிநயா	2020SUT148
ரா. அக்வினா ந்னிஷா	2020SUT150
அ. ஆரோக்கிய நேன்ஸி	2020SUT151
அ. மிக்கேல் ஜெமினா	2020SUT161

மேற்பார்வையாளர்  
முனைவர் சி. ஆன்சி மோள்  
தமிழ்த்துறை (சுயநிதி)



திருச்சிலுவை கல்லூரி  
நாகர்கோவில்  
நவம்பர் 2022

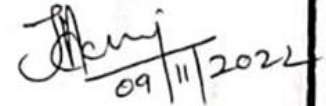


மேற்பார்வையாளர் சான்றிதழ்

இனங்கலை மீன்றாமாண்டு தமிழ் இலக்கியம்  
சுற்றுச்சூழல் கல்விக்காக 'கடற்கரை கிராமத்தின்  
வணிக மீன்கள் பற்றிய ஆய்வு' என்னும்  
தலைப்பில் அமைந்த திட்டக்கட்டுரை வி.ரா. அபநயா,  
ரா. அக்ஷணா நணிஷா, அ. ஆரோக்கிய சேனா,  
அ. மிக்கேல் சௌமினா ஆகியோர்களால்  
திருவாக எய்யப்பட்டது. என்னுள் சான்றளக்கிதும்.

  
09/11/2022  
குறைந்ததலைவர்

முனைவர். சி. ஆன்சி மோன்

  
09/11/2022

மேற்பார்வையாளர்

முனைவர். சி. ஆன்சி மோன்

கூடம் : நாகர்கோவிலி,

நாள் : 09-11-2022.

கட்டுரையாளர்கள் உறுதிமொழி

சுற்றுச்சூழல் கவனிக்காண 'கடற்கரை  
நிராமத்தின் வணிக மீன்கள் பற்றிய உய்வு'  
என்னும் தலைப்பில் எழுதப்பட்ட கீத்திட்டக்  
கட்டுரை எங்களின் மூல முயற்சியால்  
உருவானது என்று உறுதியளிக்கிறோம்.

கட்டுரையாளர்கள்

சைலியாப்பம்

வி.ரா. அபிநயா

வி.ரா. அபிநயா.

ரா. அக்ஷிணா நண்பா

நனிஜா.ரா

அ. அரோக்கிய சிந்ணா

அ. அரோக்கிய சிந்ணா

அ. மிக்கேல் எலமிணா

அ. மிக்கேல் ரிஜிணா.



இளங்கலை மூன்றாம் ஆண்டு தமிழ் இலக்கியம்  
சுற்றுச்சூழல் கல்வி

**திட்டக் கட்டுரை**

<b>கட்டுரையாளர்கள்</b>	<b>பதிவுஎண்</b>
மு.துர்கா தேவி	2020SUT004
இ.சக்தி	2020SUT132
அ.மரிய அபிஷா	2020SUT158
வெ.முத்து சுபா	2020SUT162

முனைவர் சி.ஆன்சி மோள்  
தமிழ்துறை( சுயநிதி )



**திருச்சிலுவைக் கல்லூரி**

**நாகர்கோவில்-629004**

**நவம்பர்-2022**

கட்டுரை யாளர்கள் உறுதிமொழி

சுற்றுச்சூழல் கல்விக்கான 'சசீந்திரம்

காணியாலயன் கௌரவின வரலாறு' என்னும்

நூலய்யில் எழுதப்பட்ட கித்தியக்கட்டுரை எங்களின்

மிகு முயற்சியில் உருவானது என்று

உறுதியளிக்கிறோம்.

கட்டுரை யாளர்கள்

கைரியாப்பம்

அ. சூர்கா தேவி

மு. சூர்கா தேவி.

இ. சக்தி

சி. சக்தி

சி. மரிய சிபிஷா

சி. மரிய சிபிஷா

சி. முத்து சபா

சி. முத்து சபா



மேற்பார்வையாளர் சான்றிதழ்

கிராமங்கலை முன்றலாண்கு துமிழ்

கிலக்கியம் சர்வச்சூழல் கல்விக்காக 'சசீந்திரம்

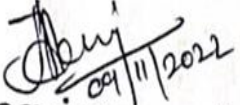
தூண்புமாவயன் கோவிலின் வரலாறு' என்னும்

தலைப்பில் பிணைந்த திட்டக்கட்டுரை மு.சூர்னா தெளி,


கி.சக்தி, பி.மரிய பிபிஷா, ரவ. அக்து சபா

தூகியோர்ணாள் கிஷுவாக ரெய்யப்பபகு. என்னும்

சான்றாண்கிடுறன்.

  
09/11/2022  
சூறாத்தலைவர்

பிணைவர். கி.சூன்சி மூறன்

  
09/11/2022

மேற்பார்வையாளர்

பிணைவர். கி.சூன்சி மூறன்

கிடம் : நாரிடுகூலி,  
: 09ec.tlc

நாள் : 09-11-2022.





DEPARTMENT OF HISTORY

சுற்றுசூழல் அமைப்பிற்கான ஆய்வேடு  
கன்னியாகுமரியில் ஏற்பட்ட இருபெரும் பேரழிவுகள்  
(சுனாமி மற்றும் ஓகி புயல்)

மனோன்மணியம் சுந்தரனார் பல்கலைக்கழக இளங்கலை வரலாறு பட்டத்திற்கு  
அளிக்கப்படும் ஆய்வேடு

இளங்கலை வரலாறு மூன்றாம் ஆண்டு

ஆய்வாளர்கள்

பதிவெண்

ர.அனுஷா	(2020AUH202)
அ. ஆசிகா	(2020AUH202)
ஐா. ஆக்ஸ்லின்டோனி	(2020AUH203)
பெ. பெல்சா பெரோனா	(2020AUH204)
எ.பிரான்சினை	(2020AUH205)
ஐா. ஷெரின்	(2020AUH206)

ஆய்வு வழிகாட்டி  
முனைவர் கா. பேபி



வரலாற்றுத்துறை

திருச்சிலுவைக் கல்லூரி

அக்டோபர் - 2022

நாகர்கோவில் -629004



ஆய்வாளர்கள் உறுதிமொழி

திருச்சிலுவைக் கல்லூரியில் முன்றாமாண்டு இளங்கலை வரலாறு பயிலும் ர.அனுஷா, அ.ஆசிகா, ஜா.ஆக்ஸ்லின் டோனி, எ. பிரான்சினா, பெ.பெல்சா பெரோனா ஜா. ஷெரின் ஆகிய முன்றாம் ஆண்டு வரலாற்று மாணவிகள் சமர்ப்பித்துள்ள இவ்வாய்வேடு, இளங்கலை வரலாறு பட்டத்திற்காக கன்னியாகுமரியில் ஏற்பட்ட இருபெரும் பேரழிவுகள் (சுனாமி மற்றும் ஓகி புயல்) என்னும் தலைப்பில் வரலாற்றுத்துறை பேராசிரியை முனைவர் க.பேபி அவர்களின் வழிகாட்டுதலின்படி எங்களது சொந்த முயற்சியில் உருவானது என்றும், இவ்வாய்வேடு இதற்கு முன் வேறு எந்த ஆராய்ச்சிப் பட்டத்திற்கும் சமர்ப்பிக்கப்படவில்லை என்றும் உறுதி அளிக்கிறோம்.

இடம்: நாகர்கோவில்

இவண்

நாள்: 16-11-2022

ஆய்வாளர்கள்	பதிவேண்	கையொப்பம்
ர.அனுஷா	(2020AUH202)	Anusha R
அ. ஆசிகா	(2020AUH202)	A.Ashika
ஜா. ஆக்ஸ்லின் டோனி	(2020AUH203)	J. Aileen Doni
பெ. பெல்சா பெரோனா	(2020AUH204)	P. Pelsa Peroma.
எ. பிரான்சினா	(2020AUH205)	E. Francina
ஜா. ஷெரின்	(2020AUH206)	J. Sherin

உறுதிக்க கையொப்பம்

துறைத்தலைவர்

Dr. I. JALAJA  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

Dr. L. JESMALAR  
தேர்வாளர்

Dr. L. JESMALAR  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629 004

**ஆழ்துறை கிணறு**

**திருச்சிலுவை கல்லூரி**

**இளங்கலை வரலாறு**

**பட்டத்திற்கான சமர்ப்பிக்கப்படும் ஆய்வேடு**

**ஆய்வாளர்கள்**

அ. இஸ்பிரீத் பாஸ்டினா	– 2020AUH381
க. சிக்மா	– 2020AUH383
கா. தாஹிரா ஷரீன்	– 2020AUH385
கு. அபிநயா	– 2020AUH501
டி. மரிய சகாய அனிஷா	– 2020AUH502
சி. பிரதிஷா	– 2020AUH503

**நெறியாளர்**

**முனைவர் லா. ஜெஸ்மலர்**



**கணிதத்துறை**

**திருச்சிலுவை கல்லூரி**

**நாகர்கோவில்- 629004**

**நவம்பர்- 2022**



மலைவாழ் மக்கள்

AECC-EVS இளங்கலை வரலாறு  
பட்டத்திற்கான சமர்ப்பிக்கப்படும்

ஆய்வேடு

ஆய்வாளர்கள்

ஜெ. நிவேதா	2020AUH216
ரா. ரவிஷா	2020AUH217
ஸ். ரேஷ்மா	2020AUH218
ஜெ. சகாய யாமினி	2020AUH219
சே. சந்தியா	2020AUH220
வை. ஷர்மி	2020AUH221
சு. சிவஜோதி	2020AUH222

நெறியாளர்  
முனைவர் ஜெஸ்மலர்



வரலாற்றுத்துறை

திருச்சிலுவை கல்லூரி

நாகர்கோவில் - 629 004

நவம்பர் - 2022

கொரோனாவிற்கு பின்  
திருச்சிலுவைக் கல்லூரிக்கு  
இளங்கலை வரலாறு  
பட்டத்திற்காக சமற்பிக்கப்படும் ஆய்வேடு  
ஆய்வாளர்கள்

சே.உசாமா அஸ்மி	-	190269
கி.அபிநயா	-	2020AUH194
ரெ.அபிஷா	-	2020 AUH196
பா.ர.அக்ஷயா	-	2020AUH197
ஜா.அன்சி	-	2020AUH198



நெறியாளர்  
முனைவர் K.பேபி  
வரலாற்றுத் துறை  
திருச்சிலுவைக் கல்லூரி  
நாகர்கோவில் - 629004  
நவம்பர் - 2022



ஒப்புக் கை

இந்த ஆய்வானது வெற்றிகரமாக முடிப்பதற்கு ஆக்கமும், ஊக்கமும் அளித்த எம் கல்லூரியின் செயலர் மற்றும் முதல்வர் அவர்களுக்கும் எம் நன்றியை உரிதாக்கி கொள்கிறோம். மேலும் எம் பாடத்தில் ஆராய்ச்சி என்ற பாடப்பிரிவை அறிமுக படுத்தி எங்களை ஊக்க படுத்திய எம் கல்லூரியின் தேர்வு கட்டுப்பாட்டு ஆணையர் மற்றும் துணை கட்டுப்பாட்டு ஆணையர் அவர்களுக்கும் எமது நன்றிகள் இந்த ஆய்வை சிறப்பாக மேற்கொள்வதற்கு உதவிய எம் கல்லூரியின் நூலகம் மற்றும் நூலகர் அவர்களுக்கும் நூலக பணியாளர்களுக்கும் எம் நன்றிகள் அதோடு இந்த ஆய்வை சிறப்பாக சமர்ப்பிப்பதற்கு உதவிய எம் துறை தலைவர் அவர்களுக்கும் எம் துறை போராசிரியர்கள் அனைவருக்கும் நன்றியை சமர்பித்து கொள்கிறோம்.

இடம் : நாகர்கோவில்

நாள் : 14.11.2022 .

இவண்

ஆய்வாளர்கள்	பதிவெண்	கையெப்பம்
சே. உசாமாஆஸ்மி	190269	S. Ushama Asmi
கி. அபிநயா.	2020AUH194	K. Abinaya
ரெ. அபிஷா.	2020AUH196	R. Abisha
பா.ர. அக் ஷயா.	2020AUH197	B.A.K.S.H.A.Y.A
ஜா. அன்சி.	2020AUH198	J. Ansy



சுற்றுசூழல் அமைப்பிற்கான ஆய்வேடு  
கன்னியாகுமரியில் ஏற்பட்ட இருபெரும் பேரழிவுகள்  
(சுனாமி மற்றும் ஓகி புயல்)

மனோன்மணியம் சுந்தரனார் பல்கலைக்கழக இளங்கலை வரலாறு பட்டத்திற்கு  
அளிக்கப்படும் ஆய்வேடு

இளங்கலை வரலாறு மூன்றாம் ஆண்டு

ஆய்வாளர்கள்

பதிவேண்

ர.அனுஷா	(2020AUH202)
அ. ஆசிகா	(2020AUH202)
ஜா. ஆக்ஸ்லின்டோனி	(2020AUH203)
பெ. பெல்சா பெரோனா	(2020AUH204)
எ.பிரான்சினா	(2020AUH205)
ஜா. ஷெரின்	(2020AUH206)

ஆய்வு வழிகாட்டி  
முனைவர் கா. பேபி



வரலாற்றுத்துறை

திருச்சிலுவைக் கல்லூரி

அக்டோபர் - 2022

நாகர்கோவில் -629004

ஆய்வாளர்கள் உறுதிமொழி

திருச்சிலுவைக் கல்லூரியில் மூன்றாமாண்டு இளங்கலை வரலாறு பயிலும் ர.அனுஷா, அ.ஆசிகா, ஜா.ஆக்ஸ்லின் டோவி, எ. பிரான்சிளா, பெபெல்சா பெரோனா ஜா. ஷெரின் ஆகிய மூன்றாம் ஆண்டு வரலாற்று மாணவிகள் சமர்ப்பித்துள்ள இவ்வாய்வேடு, இளங்கலை வரலாறு பட்டத்திற்காக கன்னியாகுமரியில் ஏற்பட்ட இருபெரும் பேரழிவுகள் (கனாமி மற்றும் ஒகி புயல்) என்னும் தலைப்பில் வரலாற்றுத்துறை பேராசிரியை முனைவர் க.பேய் அவர்களின் வழிகாட்டுதலின்படி எங்களது சோந்த முயற்சியில் உருவானது என்றும், இவ்வாய்வேடு இதற்கு முன் வேறு எந்த ஆராய்ச்சிப் பட்டத்திற்கும் சமர்ப்பிக்கப்படவில்லை என்றும் உறுதி அளிக்கிறோம்.

இடம்: நாகர்கோவில்

இவண்

நாள்: 16-11-2022

ஆய்வாளர்கள்

பதிவேண்

கையொப்பம்

ர.அனுஷா

(2020AUH202)

Anusha - R

அ. ஆசிகா

(2020AUH202)

Ashika

ஜா. ஆக்ஸ்லின் டோவி

(2020AUH203)

J. Axlin Devi

பெ. பெல்சா பெரோனா

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P. Bela Perona

எ. பிரான்சிளா

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துறைத்தலைவர்

Dr. L. Jesmalar

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Assistant Professor  
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## தூய்மை இந்தியா

AECC-EVS இளங்கலை வரலாறு  
பட்டத்திற்காக சமர்ப்பிக்கப்படும்

ஆய்வேடு

### ஆய்வாளர்கள்

மு. கதிஜா முஹ்ஷனா	2020AUH209
லி. லிபிஷா ஷானு	2020AUH210
லி. லிபியா ஷானு	2020AUH211
அ. மரிய சிஸிமி	2020AUH212
ர. நந்தினி	2020AUH214
ஏ. நியூலின் ரூபா	2020AUH215

### நெறியாளர்

முனைவர் கே.பேபி



வரலாற்றுத் துறை

திருச்சிலுவை கல்லூரி

நாகர்கோவில் - 629 004

நவம்பர் - 2022





ஆய்வாளர் உறுதிமொழி

திருச்சிலுவை கல்லூரியில் மூன்றாமாண்டு இளங்கலை வரலாறு பயிலும் வரலாற்றுப்பட்டத்திற்காக "தாய்மை இந்தியா" என்னும் தலைப்பில் வரலாற்றுத்துறை உதவிப் பேராசிரியை முனைவர் கே. பேபி அவர்களின் வழிகாட்டுதலின்படி சமர்ப்பித்துள்ள இவ்வாய்வேடு எங்களது சொந்த முயற்சியில் உருவானது என்றும் இவ்வாய்வேடு இதற்கு முன் வேறு எந்த ஆராய்சிப் பட்டத்திற்கும் சமர்ப்பிக்கப்படவில்லை என்று உறுதி அளிக்கிறோம்.

இவண்,

இடம் : நாகர்கோவில்

நாள் : 14-11-2022

ஆய்வாளர்	பதிவெண்	கையெப்பம்
மு. கதிஜா முஹ்ஷனா	2020AUH209	மு. நந்தினி முகந்திரினா.
லி. லிபிஷா ஷானு	2020AUH210	லி. லிபிஷா ஷானு
லி. லிபியா ஷானு	2020AUH211	லி. லிபியா ஷானு
அ. மரிய சிஸிமி	2020AUH212	அ. மரிய சிஸிமி
ர. நந்தினி	2020AUH214	ர. நந்தினி
ஏ. நியூலின் ரூபா	2020AUH215	ஏ. நியூலின் ரூபா

  
துறைத்தலைவர்

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Holy Cross College (Autonomous)  
Nagercoil - 629004

  
தேர்வாளர்

**Dr. L. JESMALAR**  
Assistant Professor  
Department of Mathematics  
Holy Cross College (Autonomous)  
Nagercoil - 629004



**DEPARTMENT OF ECONOMICS**

**AN RESEARCH STUDY ON LAND POLLUTION IN NAGERCOIL**

*A project report submitted to  
Holy Cross College (Autonomous) Nagercoil  
Affiliated to Manonmaniam Sundaranar University  
In partial fulfilment of the requirements of the degree of*

**BACHELOR OF ARTS**

*Under the guidance of*

**Dr.A. ANAT JASLIN JINI., M.Sc., M.Phil., SET**

**Assistant Professor**

**Department of Mathematics**

**Project Team**

<b>NAMES</b>	<b>REGISTER NO.</b>
<b>M.PACKIA LEKSHMI</b>	<b>190297</b>
<b>M.INDHU</b>	<b>2020AUF230</b>
<b>S. SHINY PRIYADHARSHINI</b>	<b>2020AUF236</b>
<b>K. SUGUNA</b>	<b>2020AUF237</b>



**DEPARTMENT OF ECONOMICS  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL-629004  
2022-2023**



**CERTIFICATE**

I hereby certify that the project report “AN RESEARCH STUDY ON LAND POLLUTION IN NAGERCOIL” submitted by M.Packia lekshmi , M.Indhu, S.Shiny Priyadarshini, k. Suguna to Holy Cross College, Nagercoil (Autonomous) affiliated to Manonmaniam Sundaranar University for the III year Under graduate study is a bonafide record of research work done by them under my supervision during 2022-2023. It has never been submitted for the award any other similar title. The report represents entirely an independent original of candidates.

Place: Nagercoil

Date: 31/10/21

  
31.10.21

Head of the Department

  
Examiner 31/10/21

**Dr. S. Vimal Dolli**, M.A.,M.Phil.,Ph.D  
Head of the Department  
Department of Economics  
Holy Cross College (Autonomous)  
Nagercoil





# STUDY ON PLASTIC POLLUTION

Submitted to Holy Cross College(Autonomous), Nagercoil

Affiliated to Manonmaniam Sundaranar University

In Partial fulfillment of the requirement for the award of the degree of

**BACHELOR OF ARTS**

Under the guidance of

**Dr.A.Anat Jaslin Jini, M.Sc, M.Phil, SET**

Submitted by

<b>Names</b>	<b>Reg.No.</b>
ABISHA.N.S	2020AUF225
SWEETLIN JAFFY.S	2020AUF240
TARUNA.R	2020AUF241
SOWMIYA.T	2020AUF505



**DEPARTMENT OF ECONOMICS**

**HOLY CROSS COLLEGE (AUTONOMOUS),**

**NAGERCOIL-629004**

**2022-2023**



## CERTIFICATE

I, hereby certify that the field work report entitled “STUDY ON PLASTIC POLLUTION IN KANYAKUMARI”, submitted by N.S.Abisha, S.SweetlinJaffy, R.Taruna, T.Sowmiya to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University for the third year undergraduate study is a bonafide record of research work done by them under my supervision during 2022-2023. It has never been submitted for the award of any other similar titles. The report represented entirely an independent and original work of the candidates.

**Place :** Nagercoil

**Date:** 31.10.2022

*S.SweetlinJaffy*  
Supervisor  
31/10/21

*S.VimalDolli*  
31.10.21

Dr. S. Vimal Dolli, M.A., M.T.  
Head of the Department  
Department of Economics  
Holy Cross College (Autonomous)  
Nagercoil



## DECLARATION

We hereby declare that the project work entitled “**STUDY OF PLASTIC POLLUTION IN KANYAKUMARI**” is submitted by N.S.Abisha, S.SweetlinJaffy, R.Taruna, T.Sowmiya to Holy Cross College (Autonomous),Nagercoil, for the third year undergraduate study. It is an original work done under the guidance of Dr. Anat Jaslin Jini,M.Sc, M.Phil, SET,Assistant Professor of Mathematics, Holy Cross College(Autonomous), Nagercoil. It has not been previously submitted for the award of any other degree, fellowship or diploma or any other similar titles.

**Place:** Nagercoil

**Date:** 21.10.2022

## SIGNATURE

Abisha.N.S	<i>Abisha N.S.</i>
SweetlinJaffy.S	<i>Sweetlin Jaffy S</i>
Taruna.R	<i>Taruna.R</i>
Sowmiya.T	<i>T. sowmiya</i>





## AN ENVIRONMENTAL STUDY ON AIR POLLUTION IN KOTTAR

*A project report submitted to  
Holy Cross College (Autonomous) Nagercoil  
Affiliated to Manonmaniam Sundaranar University  
In partial fulfillment of the requirements of the degree of*

### **BACHELOR OF ARTS**

*Under the guidance of*

***Dr.A.ANAT JASLIN JINI, M.Sc., M.Phil., SET***

*Assistant Professor*

*Department of Mathematics*

***Project Team***

<b><i>NAMES</i></b>	<b><i>REGISTER NO.</i></b>
<b><i>S. SUJITHA</i></b>	<b><i>2020AUF238</i></b>
<b><i>Y. ANGELA MERCY</i></b>	<b><i>2020AUF386</i></b>
<b><i>P. SHANMUGAPRIYA</i></b>	<b><i>2020AUF389</i></b>
<b><i>A. ANU</i></b>	<b><i>2020AUF403</i></b>



**DEPARTMENT OF ECONOMICS  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL-629004  
2022-2023**



## CERTIFICATE

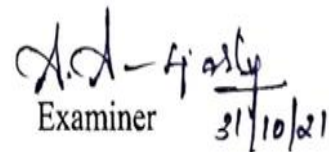
I hereby certify that the project report “AN ENVIRONMENTAL STUDY ON AIR POLLUTION IN KOTTAR” submitted by S. Sujitha, Y. Angela Mercy, P. Shanmugapriya, A. Anu to Holy Cross College, Nagercoil (Autonomous) affiliated to Manonmaniam Sundaranar University for the III year Under graduate study is a bonafide record of research work done by them under my supervision during 2022-2023. It has never been submitted for the award any other similar title. The report represents entirely an independent original of candidates.

Place: Nagercoil

Date : 31/10/2021



Head of the Department



Examiner

31/10/21

**Dr. S. Vimal Dolli**, M.A., M.Phil., Ph.D  
Head of the Department  
Department of Economics  
Holy Cross College (Autonomous)  
Nagercoil



## DECLARATION

We hereby declare that the project work done on “AN ENVIRONMENTAL STUDY ON AIR POLLUTION IN KOTTAR” is original work done by our team. We hereby declare that the facts are genuine and are not based on any research project.

NAME	REG.NO	SIGNATURE
S. SUJITHA	2020AUF238	<i>S. Sujitha</i>
Y. ANGELA MERCY	2020AUF386	<i>Y. Angela Mercy.</i>
P. SHANMUGAPRIYA	2020AUF389	<i>P. Shanmuga Priya</i>
A. ANU	2020AUF403	<i>A. Anu.</i>

Place: Nagercoil

Date: *31/10/2022*





# **A STUDY ON MEDICINAL PLANTS IN KANYAKUMARI**

Submitted to Holy Cross College(Autonomous), Nagercoil

Affiliated to Manonmaniam Sundaranar University

In Partial fulfillment of the requirement for the award of the degree of

## **BACHELOR OF ARTS**

Under the guidance of

**Dr.A.AnatJaslinJini, M.Sc, M.Phil, SET**

**Submitted by**

<b>Names</b>	<b>Reg.No.</b>
<b>ANTONY PRINCY.R</b>	<b>2020AUF227</b>
<b>KEERTHIKA.A</b>	<b>2020AUF233</b>
<b>METHA.J.S</b>	<b>2020AUF388</b>
<b>ASHA.Y</b>	<b>2020AUF504</b>



**DEPARTMENT OF ECONOMICS**

**HOLY CROSS COLLEGE (AUTONOMOUS),**

**NAGERCOIL-629004**

**2022-2023**



## CERTIFICATE

We, hereby certify that the field work report entitled “**STUDY ON MEDICINAL PLANTS IN KANYAKUMARI**”, submitted by **Antony Princy.R, Keerthika.A, Metha.J.S, Asha.Y** to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University for the third year undergraduate study is a bonafide record of research work done by them under my supervision during 2022-2023. It has never been submitted for the award of any other similar titles. The report represented entirely an independent and original work of the candidates.

**Place :** Nagercoil

**Date:** 31/10/21

*Adhish*  
Supervisor 31/10/21

*SV*  
31-10-21

**Dr. S. Vimal Dolli, M.A., M.Phil., Ph.D**  
Head of the Department  
Department of Economics  
Holy Cross College (Autonomous)  
Nagercoil



## DECLARATION

We hereby declare that the project work entitled “**STUDY OF MEDICINAL PLANTS IN KANYAKUMARI**” is submitted by **Antony Princy.R, Keerthika.A, Metha.J.S, Asha.Y** to Holy Cross College (Autonomous), Nagercoil, for the third year undergraduate study. It is an original work done under the guidance of Dr. AnatJaslinJini, M.Sc, M.Phil, SET, Assistant Professor of Mathematics, Holy Cross College (Autonomous), Nagercoil. It has not been previously submitted for the award of any other degree, fellowship or diploma or any other similar titles.

**Place:** Nagercoil

**Date:** 31. 10. 2022

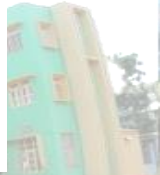
## SIGNATURE

**Antony Princy.R,** *R. Antony Princy*

**Keerthika.A,** *Keerthika . A*

**Metha.J.S,** *Metha*

**Asha.Y** *Asha.Y*





DEPARTMENT OF COMMERCE

# EVS PROJECT

## ENVIRONMENTAL POLLUTION



**Holy Cross College (Autonomous), Nagercoil.**

**Affiliated to Manonmaniyam Sundaranar**

**University - Thirunelveli**

**Submitted by**

<b>J.K. Arumathee</b>	<b>2020AUA318</b>
<b>V.Evanjalin Vincy</b>	<b>2020AUA322</b>
<b>C.M. Kaviya</b>	<b>2020AUA333</b>
<b>G. Shebina Nishi</b>	<b>2020AUA352</b>
<b>M. Sugirtha</b>	<b>2020AUA357</b>
<b>W. Sengole Kodi Arasi</b>	<b>2020AUA394</b>

**October 2022**

# EVS PROJECT

## ENVIRONMENTAL POLLUTION



Holy Cross College (Autonomous), Nagercoil.

Affiliated to Manonmaniyam Sundaranar

University - Thirunelveli

Submitted by

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V.Evanjalin Vincy	2020AUA322
C.M. Kaviya	2020AUA333
G. Shebina Nishi	2020AUA352
M. Sugirtha	2020AUA357
W. Sengole Kodi Arasi	2020AUA394

*H. M. Mary Helen Stella*

Dr. M. MARY HELEN STELLA  
ASSOCIATE PROFESSOR  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMMERCE  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629 004.

# A STUDY ON LAND POLLUTION IN KOTTAR

*Submitted by students of*



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

**Affiliated to Manonmaniam Sundaranar University, Tirunelveli.**

**(Accredited with A+ - IV Cycle – CGPA 3.35)**

## PROJECT TEAM

<b>Akshana. N. V</b>	<b>2020AUA306</b>
<b>Akshaya Varsha. A</b>	<b>2020AUA307</b>
<b>Fathima Sana. A</b>	<b>2020AUA323</b>
<b>Karishma Lini. M</b>	<b>2020AUA331</b>
<b>Rahman Shafana. S.H</b>	<b>2020AUA343</b>
<b>Thasneem Zeenath. A</b>	<b>2020AUA360</b>



# A STUDY ON LAND POLLUTION IN KOTTAR

*Submitted by students of*



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

(Accredited with A+ - IV Cycle – CGPA 3.35)

## PROJECT TEAM

Akshana. N. V	2020AUA306
Akshaya Varsha. A	2020AUA307
Fathima Sana. A	2020AUA323
Karishma Lini. M	2020AUA331
Rahman Shafana. S.H	2020AUA343
Thasneem Zeenath. A	2020AUA360

*M. Mary Helen Stella*  
Dr. M. MARY HELEN STELLA  
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HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629 004.

# **A STUDY ON SOCIAL ISSUES AND ENVIRONMENT**

**Submitted by students of**



**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**  
**Affiliated to Manonmaniam Sundaranar University, Tirunelveli**  
**(Accredited with A+ - IV Cycle – CGPA 3.35)**

## **PROJECT TEAM**

<b>Adlin Jeya Blessy.J</b>	<b>(2020AUA304)</b>
<b>Anu.v</b>	<b>(2020AUA314)</b>
<b>Anusree.M</b>	<b>(2020AUA316)</b>
<b>Bastin Safrina.B</b>	<b>(2020AUA319)</b>
<b>Bhavitra.M S</b>	<b>(2020AUA320)</b>
<b>Pavitha.I</b>	<b>(2020AUA342)</b>

**A STUDY ON SOCIAL ISSUES AND ENVIRONMENT**

**Submitted by students of**



**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**  
**Affiliated to Manonmaniam Sundaranar University, Tirunelveli**  
**(Accredited with A+ - IV Cycle – CGPA 3.35)**

**PROJECT TEAM**

<b>Adlin Jeya Blessy.J</b>	<b>(2020AUA304)</b>
<b>Anu.v</b>	<b>(2020AUA314)</b>
<b>Anusree.M</b>	<b>(2020AUA316)</b>
<b>Bastin Safrina.B</b>	<b>(2020AUA319)</b>
<b>Bhavitra.M S</b>	<b>(2020AUA320)</b>
<b>Pavitha.I</b>	<b>(2020AUA342)</b>

*M. Mary Helen Stella*

**Dr. M. MARY HELEN STELLA**  
ASSOCIATE PROFESSOR  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMMERCE  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL - 629 004.



# **A STUDY ON PLASTIC POLLUTION**

*Submitted by students of*



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

**Affiliated to Manonmaniam Sundaranar University, Tirunelveli.**

**(Accredited with A+ - IV Cycle – CGPA 3.35)**

## **PROJECT TEAM**

<b>S. B. Sree Lakshmi</b>	<b>2020AUA355</b>
<b>C. Anusree</b>	<b>2020AUA315</b>
<b>J. Jebisha</b>	<b>2020AUA327</b>
<b>P. Anisha</b>	<b>2020AUA310</b>
<b>J. Selvi</b>	<b>2020AUA351</b>

*Plastic*

*Waste*

# **ENVIRONMENTAL SCIENCE**

Submitted by:

S. B. Sree Lakshmi (2020AUA355)

C. Anusree(2020AUA315)

J. Jebisha(2020AUA327)

P. Anisha(2020AUA310)

J. Selvi(2020AUA351)

*H. Mary Helen Stella*

**Dr. M. MARY HELEN STELLA**  
ASSOCIATE PROFESSOR  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMMERCE  
HOUSSEY COLLEGE (AUTONOMOUS)  
KANNUR COIL - 629 004.

# A STUDY ON AIR POLLUTION

Project report submitted to



**Holy Cross College (Autonomous), Nagercoil.**

**Affiliated to Manonmaniyam Sundaranar University - Thirunelveli**

*Submitted by*

<b>S. ANJALIN LIDIA</b>	<b>2020AUA309</b>
<b>S. JOSELIN</b>	<b>2020AUA329</b>
<b>M. MAKLIN GINO</b>	<b>2020AUA336</b>
<b>G. MARGRET DEYONI</b>	<b>2020AUA337</b>
<b>S. RISHALY</b>	<b>2020AUA345</b>
<b>X.SAHAYA RENISHA</b>	<b>2020AUA349</b>

**OCTOBER - 2022**



**ENVIRONMENTAL STUDIES**  
**PROJECT**  
**ON**  
**AIR POLLUTION**

**SUBMITTED**

**BY**

**S. ANJALIN LIDIA-2020AUA309**

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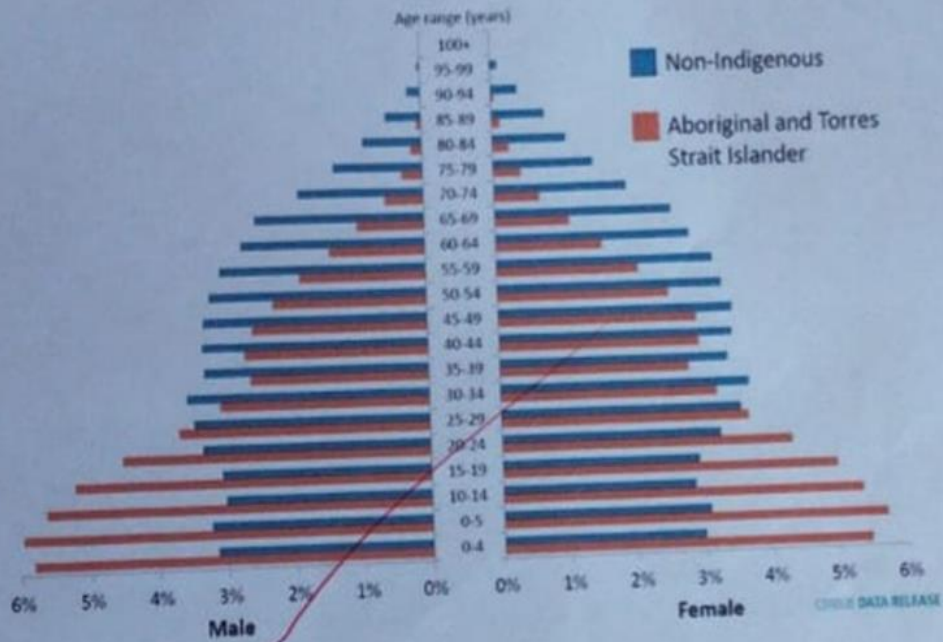
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transition, health transition and reproductive health transition. All these affect human development. If there is synergy between these transitions; the transitions can be completed rapidly; there will be substantial improvement in human development and economic development. The focus of planners, programme implementers and the people during the next two decades will have to be in achieving the synergy so that India can achieve rapid population stabilization, improvement in economic social and human development.



*g*  
*as*  
*07/10/2022*



# ENVIRONMENTAL STUDIES

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# FOREST RESOURCES

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DEFORESTATION  
( Causes, effects and control strategies)

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1 | Page

*07/10/22*

*Well done!*



### Collapsed Dams

In the event of huge rainfall, the dams built begin to collapse. Thus, causing the flood situation to become even critical for the people living around.

### Snowmelt


At the time of the high melting of snow due to heavy precipitation and other factors, the situation of flooding arises. Adopting sustainable measures for heavy precipitation can help in dealing with the flooding situation.

### Deforestation

The cutting of trees in a reckless manner i.e. deforestation is also a major cause of man-made flooding. Trees prevent soil erosion and also the loss of crops. The vegetation is also enriched as a result of more and more trees. This also blocks the massive flow of rain, thus preventing flooding.

### Climate change

The climatic changes caused due to human practices also add to the risk of flooding. Human beings cut trees in a large number, thus affecting the process of photosynthesis. Thus increased level of carbon-di-oxide in the atmosphere cause changes in climate posing threats of natural disasters like floods etc.

  
3/10/22

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

**ENVIRONMENTAL STUDIES  
PROJECT  
ON  
SOIL EROSION**



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PROJECT ON

ENVIRONMENTAL POLLUTION



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**ENVIRONMENTAL STUDIES**

**PROJECT**

**ON**

**NATURAL DISASTER-FLOOD**



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**ENVIRONMENTAL STUDIES  
PROJECT  
ON  
RAIN WATER HARVESTING**



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