

Diversity of Earthworm Found in Chatrapur, Ganjam

A project report submitted for partial fulfillment of the requirements for the 4th semester Postgraduate Science (Zoology Honours) Examination (ZOOL-E405), 2025.

Submitted By
Ananya Sahoo

College Roll No. : ZOOL-23-020
Exam Roll No. : 23ZOOL050

Under the Guidance of
Dr. Shuchismita Behera

Examiner
19/05/2025



DEPARTMENT OF ZOOLOGY
GOVERNMENT SCIENCE COLLEGE,
CHATRAPUR

DECLARATION

I Ananya Sahoo [23ZOOLO50], hereby declare that the project work entitled "Diversity of Earthworm Found in Chatrapur, Ganjam" is an original piece of research carried out by me. Where assistance has been received, due acknowledgement has been made. The work presented is genuine and has not been submitted for any other degree or diploma. This work was conducted under the supervision of Dr. Shuchismita Behera and is submitted in partial fulfillment of the requirements for the 4 th semester Postgraduate Science (Zoology Honours) Examination.

Ananya Sahoo .
Full Signature

Date :

Place : Chatrapur





CHATRAPUR (Gm.) ODISHA

**A PROJECT WORK ON
“INSECTS FOUND IN BERHAMPUR”**

SUBMITTED BY

**MISS. ARPITA BADSETH
CLASS ROLL NUMBER: ZOOL/23/017
EXAM ROLL NO:23ZOOL051
PG FINAL YEAR**

UNDER THE GUIDANCE OF

**DR. SUCHISMITA BEHERA
ASSISTANT PROFESSOR
DEPARTMENT OF ZOOLOGY
GOVERNMENT SCIENCE COLLEGE, CHATRAPUR**

Handwritten signature and date:
03/05/2024

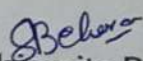
CERTIFICATE

Certified that project report on "INSECTS FOUND IN BERHAMPUR" was carried out by Arpita Badseth (23ZOOL051) of Fourth semester PG science (Zoology) under my guidance. This project was submitted as a part of partial fulfilment of fourth semester of PG science (Zoology Honours) Examination, 2025.

This is an original piece of work and has not been submitted to any university or institution earlier.

Date : 03/05/2025

Place: Chatrapur


Dr. Suchismita Behera
Assistant professor, Zoology

DECLARATION

I Arpita Badseth (23ZOOOL051) the student of the Department of Zoology does hereby declare that the thesis entitled "INSECTS FOUND IN BERHAMPUR" embodies my original research work carried out under the guidance of Dr. Suchismita Behera, Assistant professor in Zoology, Government Science College, Chatrapur. This work has not been submitted by me to this college or to any other institution or university for the award of any degree either in part or full.

Arpita Badseth
Arpita Badseth

Roll no: 23ZOOOL051

P.G. DEPT. Of zoology

Govt. science College, chatrapur

Place : Chatrapur

Date : 03/05/2025



CHATRAPUR (Gm.) ODISHA

**A PROJECT WORK ON
"THE STUDY OF CRABS FOUND IN CHILIKA LAKE"**

SUBMITTED BY
MISS.MADHUSMITA MALLIK
CLASS ROLL NUMBER: ZOOL/23/012
EXAM ROLL NO:23ZOOL052
PG FINAL YEAR

Examined
19 Jan
03/05/2023

UNDER THE GUIDANCE OF
DR.DIANA PRADHAN
ASSISTANT PROFESSOR
DEPARTMENT OF ZOOLOGY
GOVERNMENT SCIENCE COLLEGE, CHATRAPUR

DECLARATION

I Madhusmita Mallik (23ZOOLO52) the student of the Department of Zoology does hereby declare that the thesis entitled "**THE STUDY OF CRABS FOUND IN CHILIKA LAKE**" embodies my original research work carried out under the guidance of Dr. Diana Pradhan, Assistant professor in Zoology, Government Science College, Chatrapur. This work has not been submitted by me to this college or to any other institution or university for the award of any degree either in part or full.

Full signature

Place: Chhatrapur

Madhusmita Mallik

Date: ~~Chhatrapur~~ 05.03.25.

DECLARATION

I, N. Suresh Pradhan, hereby, declared that the work presented in this dissertation thesis entitled **“Diversity of Brachyuran Crabs along the Gopalpur coast, Ganjam”** has been done by me. The work is original and has not been done earlier by anyone else. The result in this thesis has not been submitted previously to this or any other university for any degree.

N Suresh Pradhan
Roll. No. 23Z00L054
P. G. Dept. of Zoology
Govt. Science College
Chatrapur

Examined
1/Jan
03/05/2022



दूरभाष / Phone: 0680 2950944
0680 2950945
टेलिफैक्स / Tele-Fax: 0680 2242935
Email: ebrco@mxi.gov.in



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE



Zoological Survey of India
भारतीय जवनी सर्वेक्षण
Estuarine Biology Regional Centre
खेडीय गजपुडी जीव विज्ञान केंद्र
Hilltop, Gopalpur-on-Sea - 761 002
द्वितीय, गजपुड़-सा-सी-761 002
Ganjam, Odisha
गंजम, ओडिशा

CERTIFICATE

This is certified that Mr. N. Suresh Pradhan has carried out this research entitled **“Diversity of Brachyuran Crabs along the Gopalpur coast, Ganjam”** under my supervision and guidance. To the best of my knowledge this thesis has not been submitted for any other University for a Master Degree.

I do hereby recommend that this thesis to be accepted for the partial fulfilment of the requirements for the degree of Master of Science in the Post Graduate Department of Zoology, Govt. Science College, Chatrapur.

du
20/04/25

Dr. Anil Mohapatra
Scientist-E and Officer-in Charge

Dr. Anil Mohapatra, Scientist-E
ESTUARINE BIOLOGY REGIONAL CENTRE
ZOOLOGICAL SURVEY OF INDIA
HILLTOP, GOPALPUR-ON-SEA-761002
(GANJAM) ODISHA

EXPLORING PHYLOGENY AND DENTITION MORPHOLOGY OF ANGUILLIFORMES FROM THE GANJAM COAST, ODISHA

A DISSERTATION SUBMITTED TO GOVERNMENT SCIENCE COLLEGE, CHATRAPUR FOR THE
PARTIAL FULFILMENT OF THE AWARD OF THE POST GRADUATE DEGREE IN ZOOLOGY, 2025
(ZOOL D 405)

By

P. NIROJA

Roll No: ZOOL23-005

Exam Roll No: 23ZOOL055

SESSION: 2023-2025

Under the Supervision of

Dr. Shuchismita Behera

Assistant Professor

P.G. Dept. of Zoology

Govt. Science College, Chatrapur

Dr. Anil Mohapatra

Scientist-E and Officer-in Charge

EBRC, ZSI, Gopalpur-on-Sea

*Examined
19 Jan
03/05/2025*



**POST GRADUATE DEPARTMENT OF ZOOLOGY
GOVERNMENT SCIENCE COLLEGE
CHATRAPUR**

DECLARATION

I, P. NIROJA, hereby declare that the work presented in this dissertation thesis entitled **"Exploring Phylogeny and dentition morphology of Anguilliformes from the Ganjam Coast, Odisha"** herein is original work done by me. The work presented is genuine and has not been submitted for any other degree or diploma. Any literature data or work done by other and cited within this thesis has given due acknowledgement and listed in the reference section. This work was conducted under the supervision of Dr. Anil Mohapatra and Dr. Shuchismita Behera and is submitted in partial fulfillment of the requirements for the 4th semester Postgraduation Science (Zoology Honours) Examination.

Place: Chatrapur

Date: 01.04.2025

P. Niraja
Full Signature

**DIVERSITY ASSESSMENT OF STINGRAY ALONG
GOPALPUR SEA COAST**

**A DISSERTATION SUBMITTED FOR THE PARTIAL FULFILMENT
OF THE AWARD OF THE POST GRADUATE DEGREE IN
ZOOLOGY, 2025
PAPER: ZOOL-D-405**

Submitted By

SK WASIM AKTHER

Department of Zoology
Roll No.- 23ZOOL057

Under the Supervision of

Dr. Shuchismita Behera
Assistant Professor

Department of Zoology
Govt. Science College
Chatrapur, 761020, Odisha

Dr. Anil Mohapatra
Scientist-E

Estuarine Biology Regional Centre
Zoological Survey of India
Ganjam, 761002, Odisha

*Examined
Ratan
03/05/2025*



**GOVERNMENT SCIENCES COLLEGE CHATRAPUR,
CHATRAPUR-761020, ODISHA**

DECLARATION

I hereby declare that this thesis entitled " DIVERSITY ASSIGNMENT OF STINGRAY ALONG GOPALPUR COAST" comprises my own research work, except where specifically stated, and that it is not substantially the same as any other thesis which has been submitted to any other University and College.

Date: 3/5/25

Place: Chatrapur

SK Wasim Akther

SK WASIM AKTHER

Roll No. 23ZOOL057

PG Department of Zoology
Govt. Science College Chatrapur, Ganjam
Ganjam, 761020, Odisha

A STUDY ON DIVERSITY OF PRAWN SPECIES OF
CHILIKA LAKE FROM BALUGAON, ODISHA



Submitted by

Sonu Sangam Sahu

Class Roll No.: ZOOL-23-003

Exam Roll No.: 23ZOOL058

M.Sc. Final Year

Under The Guidance of

Dr. Diana Pradhan

Assistant Professor in Zoology

DEPARTMENT OF ZOOLOGY

GOVERNMENT SCIENCE COLLEGE, CHATRAPUR

Examined
Dr. Diana Pradhan
03/05/2024

DECLARATION

I Sonu Sangam Sahu the student of the Department of Zoology does hereby declare that the thesis entitled "A STUDY ON DIVERSITY OF PRAWN SPECIES OF CHILIKA LAKE FROM BALUGAON, ODISHA" embodies our original research work carried out under the guidance of Dr. Diana Pradhan, Assistant Professor in Zoology, Government Science College, Chatrapur. This work has not been submitted by me to this college or to any other institution or university for the award of any degree either in part or full.

Sonu Sangam Sahu
Full Signature

Place *Chatrapur*

Date *03/05/2025*

THE ROLE OF EARTHWORMS AND BIOCHAR ON SOIL ENZYME ACTIVITY AND ANTIBIOTIC DEGRADATION

Submitted by
SRIYA ADHEK
Roll No. – 23ZOOI-059
Reg. No.-21084/2023



Guided by
SMT. RAJABALA TRIPATHY
Asst. Prof. of Zoology

E. faecium
19
03/05/2025



P.G DEPARTMENT OF ZOOLOGY
GOVT. SCIENCE COLLEGE,
CHATRAPUR
2025

DECLARATION

I hereby declare that the project report entitled "**THE ROLE OF EARTHWORMS AND BIOCHAR ON SOIL ENZYME ACTIVITY AND ANTIBIOTIC DEGRADATION**" submitted by me to Govt.Science College, Chatrapur. I Sriya Adhek, in partial fulfilment of the requirement for the award of the degree of M.Sc. in zoology department is a record of bonafede project work carried out by me under the guidance of Smt. Rajabala Tripathy (Asst. Prof. of Zoology). I further declare that the work reported in this project (ZOOL D 405) has not been either in part or in full, for the award of any other degree of this institute or any other university.

Place: Chatrapur

Date: 02/05/25

Sriya Adhek
(Sriya Adhek)

Roll No.-23ZOOL059

**EFFECTS OF ANTIBIOTIC AND EARTHWORM ON SOIL
MIRCROBIAL ENZYMATIC ACTIVITY**

Submitted By

Swarnaprabha Sethi

Roll No-23ZOOL060

Regd. No-23261/2019

Guided By

SMT. RAJABALA TRIPATHY

Asst. Prof of zoology

*Examined
Ratan
03/05/2025*



**P.G DEPARTMENT OF ZOOLOGY GOVT. SCIENCE
COLLEGE, CHATRAPUR**

2025

CERTIFICATE

This is hereby to certify that, the project work entitled " EFFECTS OF ANTIBIOTIC AND EARTHWORM ON SOIL MIRCROBIAL ENZYMATIC ACTIVITY" is an original and genuine study and has been carried out by Swarnaprabha Sethi, a student of M.Sc. final year bearing the Roll No-23ZOOL060 from Govt.Science College, Chatrapur of Zoology Department for the academic session 2023-2025 under my supervision in partial fulfilment of the requirement for the award of the degree of M.Sc.

Place: Chatrapur

Date: 3.5.25

Rm 3.5.25
(Smt. Rajabala Tripathy)

Asst. Prof. of Zoology

DECLARATION

I hereby declare that the project report entitled " EFFECTS OF ANTIBIOTIC AND EARTHWORM ON SOILMIRCROBIAL ENZYMATIC ACTIVITY" submitted by me to Govt. Science College, Chatrapur. I Swarnaprabha Sethi, in partial fulfilment of the requirement for the award of the degree of M.Sc. in zoology department is a record of bonafede project work carried out by me under the guidance of Smt. Rajabala Tripathy (Asst. Prof. of Zoology). I further declare that the work reported in this project (ZOOL D 405) has not been either in path or in full, for the award of any other degree of this institute or any other university

Place - chatrapur
Date - 03/05/25

Swarnaprabha Sethi
Roll no. - 23ZOOLO60

**INVESTIGATING MICRO- AND NANO-PLASTIC
ACCUMULATION IN *Pomadourys furcatus* (Bloch & Schneider,
1801) ALONG THE GANJAM COAST, ODISHA**

**A DISSERTATION SUBMITTED FOR THE PARTIAL FULFILMENT
OF THE AWARD OF THE POST GRADUATE DEGREE IN
ZOOLOGY, 2025
PAPER: ZOOL-D-405**

Submitted By

SWARNAPRAVA DASH

Department of Zoology
Roll No.- 23ZOOL061

Under the Supervision of

Dr. Shuchismita Behera

Assistant Professor

Department of Zoology
Govt. Science College
Chatrapur, 761020, Odisha

Dr. Anil Mohapatra

Scientist-E

Estuarine Biology Regional Centre
Zoological Survey of India
Ganjam, 761002, Odisha



**GOVERNMENT SCIENCES COLLEGE CHATRAPUR,
CHATRAPUR-761020, ODISHA**

DECLARATION

I hereby declare that this thesis entitled “Investigating Micro- and Nano-Plastic Accumulation in *Pomadasys furcatus* (Bloch & Schneider, 1801) along the Ganjam Coast, Odisha” comprises my own research work, except where specifically stated, and that it is not substantially the same as any other thesis which has been submitted to any other University and College.

Date: 30/04/2025

Place: Chatrapur

Swarnaprava Dash
Swarnaprava Dash

Roll No. 23ZOOL061
Govt. Science College Chatrapur
Ganjam, 761020, Odisha