

**A PROJECT REPORT ON**  
**FROM NETS TO PLATES: EDIBLE FISH DIVERSITY**  
**OF CHATRAPUR, GANJAM, ODISHA**

Project Submitted In Partial Fulfillment Of +3 Science  
(Under CBCS Syllabus) Examination-2026



Submitted by

**P RITIKUMARI**

**+3 SCIENCE FINAL YEAR**

**EXAM ROLL NO -CH2414132**

**COLLEGE ROLL NO -BS (B)-23-002**

UNDER THE GUIDENCE SUPERVISION OF

**S.SRAVANI**

GOVT. Science College, Chatrapur, Ganjam, Odisha

AFFILIATED TO BERHAMPUR UNIVERSITY

## DECLARATION

I, P Riti Kumari BS (B)-23-002, A student of the department of Zoology, hereby declare that the thesis entitled "From nets to plates: Edible fish diversity of Chatrapur, Ganjam, Odisha" is the result of my original research, conducted under the guidance of Miss S. Sravani. I affirm that this work has not been submitted, either in part or in full, to this college or any other institution or university for the award of any degree.

Full signature

Date:

Place:

**FROM NETS TO PLATES: EDIBLE FISH DIVERSITY  
OF CHATRAPUR, GANJAM, ODISHA**

Project report submitted for the partial fulfillment of sixth semester  
+3 science (Zoology Honours) Examination, 2026

BY

G. JAYANTI PATRA

Class Roll no: BS (B)-23-008

Exam Roll no: CH2414113

Under the guidance of  
Miss S. Sravani



ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର

DEPARTMENT OF ZOOLOGY  
GOVERNMENT SCIENCE COLLEGE, CHATRAPUR  
ODISHA

### DECLARATION

I, G. Jayanti Patra BS (H)-23-008, A student of the department of Zoology, hereby declare that the thesis entitled "From nest to plates: Edible fish diversity of Chhatrapur, Ganjam, Odisha" is the result of my original research, conducted under the guidance of Miss S. Sravani. I affirm that this work has not been submitted, either in part or in full, to this college or any other institution or university for the award of any degree.

G. Jayanti Patra  
Full signature

Date:

Place:

**FROM NETS TO PLATE : EDIBLE FISH DIVERSITY OF GANJAM,  
ODISHA**

Project report submitted for the partial fulfillment of sixth semester +3 science  
(Zoology Honours) Examination , 2026

BY

Ananya Priyadarshini Sahu

Class Roll No: Bs(B)-23-012

Exam Roll No: CH2414104

Under The Guidance Of

**S.Sravani**

**( Lecturer in Zoolgy )**



DEPARTMENT OF ZOOLOGY

GOVERNMENT SCIENCE COLLEGE CHATRAPUR ,GANJAM

ODISHA



### DECLARATION

I ,Ananya Priyadarshini Sahu Bs(B)-23-012, a student of the Department Of Zoology ,hereby declare that thesis entitled ‘‘From nets to plates : Edible fish diversity of Ganjam , Odisha ’’ is the result of the original research , conducted under the guidance of Miss S . Sravani, ( Lecturer in Zoolgy ),Government Science College , Chatrapur , Ganjam. I affirm that this work has not been submitted , either in part or in full , to this college or any other institution or university for the award of any degree.

Full Signature



Date :

Place :

A PROJECT REPORT ON  
**FROM NETS TO PLATES: EDIBLE FISH DIVERSITY  
OF CHATRAPUR, GANJAM, ODISHA**

Project Submitted In Partial Fulfillment Of +3 Science  
(Under CBCS Syllabus) Examination-2026



ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର

Submitted By

NALINI SASAMAL

+3 FINAL YEAR

EXAM ROLL NO. :CH2414131

COLLEGE ROLL NO. :BS(B)-23-017

UNDER THE GUIDANCE SUPERVISION OF  
**S.SRAVANI**

DEPARTMENT OF ZOOLOGY  
GOVT. SCIENCE COLLEGE, CHATRAPUR, GANJAM, ODISHA

AFFILIATED TO BERHAMPUR UNIVERSITY

## DECLARATION

I, Nalini Sasamal BS(B)-23-017, A student of the department of Zoology, hereby declare that the thesis entitled "From nest to plates: Edible fish diversity of Chatrapur, Ganjam, Odisha" is the result of my original research, conducted under the guidance of Miss S. Sravani. I affirm that this work has not been submitted, either in part or in full, to this college or any other institution or university for the award of any degree.

Nalini Sasamal  
Full signature

Date: 20/03/2026

Place: Chatrapur

**A PROJECT REPORT ON**

FROM NETS TO PLATES : EDIBLE FISH DIVERSITY  
OF CHATRAPUR ,GANJAM,ODISHA

Project report submitted for the partial fulfillment of sixth semester  
+3 science (Zoology Honours) Examination, 2026

BY

**R.Puspanjali Reddy**

Class Roll no :BS(B)-23-019

Exam Roll no : CH2414136

Under the guidance of

**Miss S.Sravani**



DEPARTMENT OF ZOOLOGY

GOVERNMENT SCIENCE COLLEGE,  
CHATRAPUR, GANJAM, ODISHA

### DECLARATION

I, R.Praspanjali Reddy BS(B)-23-019, A student of the department of Zoology, here by declare that the thesis entitled "From nest to plates: Edible fish diversity of Chatrapur, Ganjam, Odisha" is the result of my original research, conducted under the guidance of Miss S.Sravani. I affirm that this work has not been submitted, either in part or in full, to this college or any other institution or university for the award of any degree.

R. Praspanjali Reddy  
Full signature

Date: 20.03.2026

Place: Chatrapur

FROM NETS TO PLATE : EDIBLE FISH DIVERSITY OF GANJAM,  
ODISHA

Project report submitted for the partial fulfillment of sixth semester +3 science  
(Zoology Honours) Examination , 2026

BY

Tejaswini Behera

Class Roll No: Bs(B)-23-021

Exam Roll No: CH2414156

Under The Guidance Of

**S.Sravani**  
( Lecturer in Zoolgy )



DEPARTMENT OF ZOOLOGY

GOVERNMENT SCIENCE COLLEGE CHATRAPUR ,GANJAM

ODISHA



### DECLARATION

I ,Tejaswini Behera Bs(B)-23-021, a student of the Department Of Zoology ,hereby declare that thesis entitled "From nets to plates : Edible fish diversity of Ganjam , Odisha " is the result of the original research , conducted under the guidance of Miss S . Sravani, ( Lecturer in Zoolgy ),Government Science College , Chatrapur , Ganjam. I affirm that this work has not been submitted , either in part or in full , to this college or any other institution or university for the award of any degree.

Full Signature



Date :

Place :

A PROJECT REPORT ON  
**FROM NETS TO PLATES: EDIBLE FISH DIVERSITY  
OF CHATRAPUR, GANJAM, ODISHA**

Project Submitted In Partial Fulfillment Of +3 Science  
(Under CBCS Syllabus) Examination-2026



ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର

Submitted By

NAME - Rajalaxmi Das  
+3 FINAL YEAR  
EXAM ROLL NO. - CH2414137  
COLLEGE ROLL NO. - 23-023

UNDER THE GUIDANCE SUPERVISION OF  
**S.SRAVANI**

DEPARTMENT OF ZOOLOGY  
GOVT. SCIENCE COLLEGE, CHATRAPUR, GANJAM, ODISHA

AFFILIATED TO BERHAMPUR UNIVERSITY

### DECLARATION

I, Rajalaxmi Das BS(B)-23-023 A student of the department of Zoology, hereby declare that the thesis entitled "From nest to plates: Edible fish diversity of Chatrapur, Ganjam, Odisha" is the result of my original research, conducted under the guidance of Miss S. Sravani. I affirm that this work has not been submitted, either in part or in full, to this college or any other institution or university for the award of any degree.

Rajalaxmi Das  
Full signature

Date: 20/03/2024

Place: Chatrapur

**A PROJECT REPORT ON**  
**FROM NETS TO PLATES: EDIBLE FISH DIVERSITY**  
**OF CHATRAPUR, GANJAM, ODISHA**

Project report submitted for the partial fulfilment of sixth  
Semester +3 science (Zoology Honours) Examination, 2025



ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର

**Submitted by**

Sodi Trisha Reddy

+3 SCIENCE FINAL YEAR

Exam Roll no: CH2414149

College Roll no: BS (B)-23-034

Under the guidance- S Sravani

GOVT. Science College, Chatrapur, Ganjam, Odisha  
AFFILIATED TO BERHAMPUR UNIVERSITY

### DECLARATION

I Sodi Trisha Reddy BS(B)-23-034, A student of the Department of Zoology, hereby declare that the thesis entitled "From Nets To Plates: Edible Fish Diversity of Chatrapur, Ganjam District, Odisha" is the result of my original research, conducted under the guidance of Miss S Sravani. I affirm that this work has not been submitted, either in part or in full, to this college or any other institution or university for the award of any degree.

Sodi Trisha Reddy  
Full signature

Date: 20/03/2026

Place: Chatrapur

**GOVERNMENT SCIENCE COLLEGE  
CHATRAPUR, GANJAM**



*Submitted by :*

**SUBHASMITA MALLICK**

ROLL NO. : BS(B)-23-035

EXAM ROLL NO.: CH2414151

**PROJECT  
ON  
DIVERSITY OF BIRDS**

*Guided by :*

**Mrs. Gitanjali Pradhan**

Department of Zoology

**GOVERNMENT SCIENCE COLLEGE  
CHATRAPUR, GANJAM.**

## DECLARATION

I hereby , declare that the project report entitled "DIVERSITY OF BIRDS " submitted by **SHUBHASHMITA MALICK** To **GOVT. SCIENCED COLLEGE, CHATRAPUR** in partial fulfillment of the requirement regarding DSE paper of sixth semester of **SCIENCE IN ZOOLOGY DEPARTMENT** is a record of project work carried out by me under the guidance of **Mrs. GITANJALI PRADHAN** . I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other instituted or university.

*Shubhasmita Mallick*  
Shubhasmita Mallick

(Student)



*A Project Report On*  
**THE DIVERSITY OF BIRD IN GANJAM**



Project submitted in partial fulfillment

Of

The Under Graduate Degree in Zoology

Submitted by

**MOHAN SHYAM BEHERA**

+3 Science 3<sup>rd</sup> Year

Exam Roll No:-CH2414127

Roll No:-BSC-(B)-23-037

Guided by

**Mrs. GITANJALI PRADHAN (Asst. professor)**

Department of Zoology

Govt. Science college, Chatrapur Ganjam

## DECLARATION

I hereby, declare that the project report entitled "**THE DIVERSITY OF BIRDS IN GANJAM**" Submitted by **MOHAN SHYAM** to GOVT.SCIENCE COLLEGE CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under guidance of **Mrs. GITANJALI PRADHAN**. I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university

**MOHAN SHYAM BEHERA**

*(student)*

*A Project Report On*  
**THE DIVERSITY OF BIRD IN GANJAM**



Project submitted in partial fulfillment  
Of

The Under Graduate Degree in Zoology

Submitted by

***Sonali Pati***

+3 Science 3<sup>rd</sup> Year

Exam Roll No:-CH2414150

Roll No:-BSC-(B)-23-038

Guided by

***Mrs. GITANJALI PRADHAN (Asst. professor)***

Department of Zoology

Govt. Science college, Chatrapur Ganjam

## DECLARATION

I hereby, declare that the project report entitled "THE DIVERSITY OF BIRDS IN GANJAM" Submitted by **Sonali Patl** to GOVT.SCIENCE COLLEGE CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under guidance of Mrs. GITANJALI PRADHAN. I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university

**Sonali Patl**

*(student)*

**A PROJECT REPORT ON**  
**THE DIVERSITY OF**  
**BIRDS IN GANJAM**

**Project Submitted In Partial Fulfillment OF +3Science**  
**(Under CBCS syllabus) Examination-2026**



**Submitted by**

**RUPALI BEHERA**

**+3 SCIENCE FINAL YEAR**

**EXAM ROLL NO - CH2414141**

**COLLEGE ROLL NO - BS(B)23-039**

**UNDER THE GUIDENCE AND SUPERVISION OF**

**GITANJALI PRADHAN**

**Asst. Professor Department of Zoology**

**GOVT. Science College, Chatrapur , Ganjam, Odisha**

**AFFILATED TO BERHAMPUR UNIVERSITY**

## **DECLARATION**

I hereby, declare that the project report entitled “**THE DIVERSITY OF BIRDS IN GANJAM**” submitted by **Rupali Behera**. To GOVT. SCIENCE COLLEGE, CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under the guidance of **MRS. GITANJALI PRADHAN**. I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university.

**Rupali Behera**  
(Student)

*A Project Report On*  
**THE DIVERSITY OF BIRD IN GANJAM**



Project submitted in partial fulfillment

Of

The Under Graduate Degree in Zoology

Submitted by

**Supriya Das**

+3 Science 3<sup>rd</sup> Year

Exam Roll No:-CH2414155

Roll No:-BSC-(B)-23-043

Guided by

**Mrs. GITANJALI PRADHAN (Asst. professor)**

Department of Zoology

Govt. Science college, Chatrapur Ganjam

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## DECLARATION

I hereby, declare that the project report entitled "**THE DIVERSITY OF BIRDS IN GANJAM**" Submitted by **Supriya Das** to GOVT.SCIENCE COLLEGE CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under guidance of Mrs. **GITANJALI PRADHAN**. I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university

**Supriya Das**

*(student)*

**A PROJECT REPORT ON**  
**THE DIVERSITY OF**  
**BIRDS IN GANJAM**

**Project Submitted In Partial Fulfillment OF +3Science**  
**(Under CBCS syllabus)Examination-2026**



**Submitted by**

**DIPTI BEHERA**

**+3 SCIENCE FINAL YEAR**

**EXAM ROLL NO - CH2414112**

**COLLEGE ROLL NO - BS(B)23-049**

**UNDER THE GUIDENCE AND SUPERVISION OF**

**GITANJALI PRADHAN**

*Asst. Professor Department of Zoology*

**GOVT. Science College, Chatrapur , Ganjam, Odisha**

**AFFILATED TO BERHAMPUR UNIVERSITY**

## **DECLARATION**

I hereby, declare that the project report entitled "**THE DIVERSITY OF BIRDS IN GANJAM**" submitted by **Dipti Behera**. To GOVT. SCIENCE COLLEGE, CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under the guidance of **MRS. GITANJALI PRADHAN**. I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university.

**Dipti Behera**  
(Student)

**A PROJECT REPORT ON**

# **THE DIVERSITY OF BIRDS IN GANJAM**

**Project Submitted In Partial Fulfillment Of +3Science  
(Under CBCS syllabus)Examination-2026**



**Submitted by**

**LAXMI GAUD**

**+3 SCIENCE FINAL YEAR**

**EXAM ROLL NO - CH2414123**

**COLLEGE ROLL NO - BS(B)23-056**

**UNDER THE GUIDANCE AND SUPERVISION OF**

**GITANJALI PRADHAN**

*Asst. Professor Department of Zoology*

**GOVT. Science College, Chatrapur , Ganjam, Odisha**

**AFFILATED TO BERHAMPUR UNIVERSITY**

## **DECLARATION**

I hereby, declare that the project report entitled "**THE DIVERSITY OF BIRDS IN GANJAM**" submitted by **Laxmi Gaud**. To GOVT. SCIENCE COLLEGE, CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under the guidance of **MRS. GITANJALI PRADHAN**. I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university.

**Laxmi Gaud**  
(Student)

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*A Project Report On*  
**THE DIVERSITY OF BIRD IN GANJAM**



Project submitted in partial fulfillment

Of

The Under Graduate Degree in Zoology

Submitted by

**LOKANATH BEHERA**

+3 Science 3<sup>rd</sup> Year

Exam Roll No:-CH2414124

Roll No:-BSC-(B)-23-058

Guided by

**Mrs. GITANJALI PRADHAN (Asst. professor)**

Department of Zoology

Govt. Science college, Chatrapur Ganjam

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## DECLARATION

I hereby, declare that the project report entitled "**THE DIVERSITY OF BIRDS IN GANJAM**" Submitted by **LOKANATH BEHERA** I to GOVT.SCIENCE COLLEGE CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under guidance of **Mrs. GITANJALI PRADHAN**. I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university

—————**LOKANATH BEHERA**<sup>1</sup>  
*(student)*

*A Project Report On*  
**THE DIVERSITY OF BIRD IN GANJAM**



Project submitted in partial fulfillment

Of

The Under Graduate Degree in Zoology

Submitted by

***SUNIL KUMAR BEHERA***

+3 Science 3<sup>rd</sup> Year

Exam Roll No:-CH2414154

Roll No:-BSC-(B)-23-059

Guided by

***Mrs. GITANJALI PRADHAN (Asst. professor)***

Department of Zoology

Govt. Science college, Chatrapur Ganjam



## DECLARATION

I hereby, declare that the project report entitled "THE DIVERSITY OF BIRDS IN GANJAM" Submitted by SUNIL KUMAR BEHERA I to GOVT.SCIENCE COLLEGE CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under guidance of Mrs. GITANJALI PRADHAN. I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university

**SUNIL KUMAR BEHERA** I

*(student)*

A PROJECT REPORT ON  
**EARLY EMBRYONIC DEVELOPMENT  
IN ANIMALS**



PROJECT SUBMITTED IN PARTIAL FULFILLMENT  
OF  
THE UNDER GRADUATE DEGREE IN ZOOLOGY  
SUBMITTED BY

**H. SABIN KUMAR NAYAK**

+3 SCIENCE 3<sup>RD</sup> YEAR

EXAM ROLL NO – CH2414116

ROLL NO – BSC-B-062

UNDER GUIDANCE OF

**Prof. D KAMESWAR RAO**

DEPARTMENT OF ZOOLOGY

GOVT. SCIENCE COLLEGE, CHATRAPUR GANJAM

## DECLARATION

I hereby, declare that the project report entitled "Early embryonic development in animals" submitted by H. Sabin Kumar Nayak to GOVT. SCIENCE COLLEGE, CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under the guidance of MR.

D Kameswar Rao . I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university.

H. SABIN KUMAR NAYAK  
(Student)

A PROJECT REPORT ON  
**EARLY EMBRYONIC DEVELOPMENT IN  
ANIMALS**



PROJECT SUBMITTED IN PARTIAL FULFILLMENT OF  
THE UNDER GRADUATE DEGREE IN ZOOLOGY

SUBMITTED BY

**KHETESWARI SETHI**

**+3 SCIENCE 3<sup>RD</sup> YEAR**

EXAM ROLL NO. -CH2414121

COLLEGE ROLL NO. - BSC-B- 072

GUIDED BY

**MR. D KAMESWAR RAO**

DEPARTMENT OF ZOOLOGY

GOVT.SCIENCECOLLEGE, CHATRAPUR GANJAM

## DECLARATION

I hereby, declare that the project report entitled "Early embryonic development in animals" submitted by **Kheteswari Sethi** to GOVT.SCIENCE COLLEGE, CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under the guidance of **MR. D Kameswar Rao** . I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university.

**KHETESWARI SETHI**  
(Student)



A PROJECT REPORT ON  
**EARLY EMBRYONIC DEVELOPMENT IN  
ANIMALS**



PROJECT SUBMITTED IN PARTIAL FULFILLMENT OF  
THE UNDER GRADUATE DEGREE IN ZOOLOGY

SUBMITTED BY

**DINESH KHUNITA**

**+3 SCIENCE 3<sup>RD</sup> YEAR**

EXAM ROLL NO-CH2414111

ROLL COLLEGE ROLL NO - BSC-B-094

GUIDED BY

MR. D KAMESWAR RAO

DEPARTMENT OF ZOOLOGY

GOVT. SCIENCE COLLEGE, CHATRAPUR GANJAM

## DECLARATION

I hereby, declare that the project report entitled "**Early embryonic development in animals**" submitted by **Dinesh Khuntia** to GOVT.SCIENCE COLLEGE, CHATRAPUR

in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under the guidance of MR. **D Kameswar Rao** . I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university.

**DINESH KHUNTIA**  
(Student)

A PROJECT REPORT ON  
**EARLY EMBRYONIC DEVELOPMENT IN  
ANIMALS**



PROJECT SUBMITTED IN PARTIAL FULFILLMENT OF  
THE UNDER GRADUATE DEGREE IN ZOOLOGY

SUBMITTED BY

**B MOUNIKA ACHARY**

**+3 SCIENCE 3<sup>RD</sup> YEAR**  
EXAM ROLL NO-CH2414106 ROLL  
COLLEGE ROLL NO - BSC-B-098

**GUIDED BY**

**MR. D KAMESWAR RAO**  
DEPARTMENT OF ZOOLOGY  
GOVT.SCIENCECOLLEGE, CHATRAPUR GANJAM

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## DECLARATION

I hereby, declare that the project report entitled "**Early embryonic development in animals**" submitted by **B Mounika Achary** to GOVT.SCIENCE COLLEGE, CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under the guidance of MR. **D Kameswar Rao** . I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university.

**B MOUNIKA ACHARY**  
(Student)

**A PROJECT REPORT ON**  
**EARLY EMBRYONIC DEVELOPMENT IN ANIMALS**



PROJECT SUBMITTED IN PARTIAL FULFILLMENT OF  
THE UNDER GRADUATE DEGREE IN ZOOLOGY

SUBMITTED BY

**D PABITRA REDDY**

+3 SCIENCE 3<sup>rd</sup> YEAR

EXAM ROLL NO - CH2414109

ROLL NO - BSC-B-111

GUIDED BY

Dr . D Kameswar Rao

DEPARTMENT OF ZOOLOGY.

GOVT. SCIENCE COLLEGE, CHATRAPUR, GANJAM

---

# DECLARATION

I hereby, declare that the project report entitled "**Early embryonic development in animals**" submitted by **D Pabitra Reddy** to GOVT. SCIENCE COLLEGE, CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under the guidance of **MR.D Kameswar Rao** . I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university.

**Full Signature**

A PROJECT REPORT ON

# **EARLY EMBRYONIC DEVELOPMENT IN ANIMALS**



PROJECT SUBMITTED IN PARTIAL  
FULFILLMENT OF  
THE UNDER GRADUATE DEGREE IN  
ZOOLOGY

SUBMITTED BY

**SAI KRISHNA DALAI**

**+3 SCIENCE 3<sup>RD</sup> YEAR**

EXAM ROLL NO – CH2414143

ROLL NO – BSC-B-114

**UNDER THE GUIDANCE OF**

**PROF. D.K.RAO**

DEPARTMENT OF ZOOLOGY

GOVT. SCIENCE COLLEGE, CHATRAPUR

# DECLARATION

I hereby, declare that the project report entitled "**Early embryonic development in animals**" submitted by SAI KRISHNA DALAI to GOVT. SCIENCE COLLEGE, CHATRAPUR in partial fulfillment of the requirement regarding DSE paper of sixth semester of SCIENCE in ZOOLOGY DEPARTMENT is a record of project work carried out by me under the guidance of MR.

**D Kameswar Rao** . I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree in this institute or any other institute or university.

---

**SAI KRISHNA DALAI**  
(Student)



**A PROJECT REPORT ON**

**STUDY OF SOME STRESS INDICATORS AMONG  
COLLEGE STUDENTS OF GOVERNMENT SCIENCE  
COLLEGE CHATRAPUR, GANJAM.**

**SUBMITTED FOR THE PARTIAL FULFILLMENT OF  
+3 SCIENCE (ZOOLOGY HONOURS-DSE 4) EXAMINATION -2026**

**SUBMITTED BY**

**NAME – RASMIRANI MAHARANA**

**+3 FINAL YEAR SCIENCE**

**EXAM ROLL NO – CH2414139**

**CLASS ROLL No – BS (B)-23-129**

**UNDER THE GUIDANCE OF**

**DR. SHUCHISMITA BEHERA**

**ASSISTANT PROFESSOR IN ZOOLOGY**



ଗଜପତି ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଚତ୍ରପୁର

**DEPARTMENT OF ZOOLOGY GOVERNMENT SCIENCE  
COLLEGE, CHATRAPUR, GANJAM**

## **DECLARATION**

I do hereby declare that the project work entitled "STUDY OF SOME STRESS INDICATORS AMONG COLLEGE STUDENTS OF GOVERNMENT SCIENCE COLLEGE" has been under taken. This work was conducted under the supervision of **Dr. Shuchismita Behera** and is submitted in partial fulfilment of the requirements for the 6<sup>th</sup> semester Undergraduate Science (Zoology Honours) Examination.

**Place:** Chatrapur

**Date:** 20/03/24

Rasmi Rani Mahapatra  
**Signature**

**A PROJECT REPORT ON**

**STUDY OF SOME STRESS INDICATORS AMONG  
COLLEGE STUDENTS OF GOVERNMENT SCIENCE  
COLLEGE CHATRPUR, GANJAM.**

**SUBMITTED FOR THE PARTIAL FULFILLMENT OF  
+3 SCIENCE (ZOOLOGY HONOURS-DSE 4) EXAMINATION -2026**

**SUBMITTED BY**

**NAME – RUCHI PANDA**

**+3 FINAL YEAR SCIENCE**

**EXAM ROLL NO – CH2414140**

**CLASS ROLL No – BS (B)-23-133**

**UNDER THE GUIDANCE OF**

**DR. SHUCHISMITA BEHERA**

**ASSISTANT PROFESSOR IN ZOOLOGY**



**ଘରନାଶୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର**

**DEPARTMENT OF ZOOLOGY GOVERNMENT SCIENCE  
COLLEGE, CHATRAPUR, GANJAM**

## **CERTIFICATE**

This is to certify that **Ms RUCHI PANDA** , bearing roll no – **CH24141140 (BS-B-23-133)** a student of +3 Science Zoology Honours 6<sup>TH</sup> Semester, Government Science College, Chatrapur, Ganjam has completed the project work on "**STUDY OF SOME STRESS INDICATORS AMONG COLLEGE STUDENTS OF GOVERNMENT SCIENCE COLLEGE, CHATRAPUR**" This project was submitted as a part of partial fulfilment of 6<sup>th</sup> semester of +3 science (Zoology Honours) Examination, 2026.

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

*Shreechamta Behera*  
**Assistant professor in**  
**Zoology**

**Date:**

**Place:**



**A PROJECT REPORT ON**

STUDY OF SOME STRESS INDICATORS AMONG  
COLLEGE STUDENTS OF GOVERNMENT SCIENCE  
COLLEGE CHATRAPUR, GANJAM.

SUBMITTED FOR THE PARTIAL FULFILLMENT OF  
+3 SCIENCE (ZOOLOGY HONOURS-DSE 4) EXAMINATION -2026

**SUBMITTED BY**

NAME – GIRIJA NANDINI SWAIN

+3 FINAL YEAR SCIENCE

EXAM ROLL NO – CH2414115

CLASS ROLL No – BS (B)-23-136

**UNDER THE GUIDANCE OF**

**DR. SHUCHISMITA BEHERA**

**ASSISTANT PROFESSOR IN ZOOLOGY**



ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର

**DEPARTMENT OF ZOOLOGY GOVERNMENT SCIENCE  
COLLEGE, CHATRAPUR, GANJAM**

ASSISTANT PROFESSOR IN ZOOLOGY



DEPARTMENT OF ZOOLOGY GOVERNMENT SCIENCE  
COLLEGE, CHATRAPUR, GANJAM

1

### **DECLARATION**

I do hereby declare that the project work entitled “**STUDY OF SOME STRESS INDICATORS AMONG COLLEGE STUDENTS OF GOVERNMENT SCIENCE COLLEGE**” has been under taken. This work was conducted under the supervision of **Dr. Shuchismita Behera** and is submitted in partial fulfilment of the requirements for the 6<sup>th</sup> semester Undergraduate Science (Zoology Honours) Examination.

Place:

Date:

**A PROJECT REPORT ON**

**STUDY OF SOME STRESS INDICATORS AMONG  
COLLEGE STUDENTS OF GOVERNMENT SCIENCE  
COLLEGE CHATRAPUR, GANJAM.**

**SUBMITTED FOR THE PARTIAL FULFILLMENT OF  
+3 SCIENCE (ZOOLOGY HONOURS-DSE 4) EXAMINATION -2026**

**SUBMITTED BY**

**NAME - BARSHA RANI SAHU**

**+3 FINAL YEAR SCIENCE**

**EXAM ROLL NO - CH2419107**

**CLASS ROLL No - BS (B)-23-157**

**UNDER THE GUIDANCE OF**

**DR. SHUCHISMITA BEHERA**

**ASSISTANT PROFESSOR IN ZOOLOGY**



**ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର**

**DEPARTMENT OF ZOOLOGY GOVERNMENT SCIENCE  
COLLEGE, CHATRAPUR, GANJAM**

### **DECLARATION**

I do hereby declare that the project work entitled "STUDY OF SOME STRESS INDICATORS AMONG COLLEGE STUDENTS OF GOVERNMENT SCIENCE COLLEGE" has been undertaken. This work was conducted under the supervision of **Dr. Shuchismita Behera** and is submitted in partial fulfilment of the requirements for the 6<sup>th</sup> semester Undergraduate Science (Zoology Honours) Examination.

**Place:** Chatrapur

**Date:** 20/3/2026

Barsha Rani Saha  
**Signature**

**A PROJECT REPORT ON**

STUDY OF SOME STRESS INDICATORS AMONG  
COLLEGE STUDENTS OF GOVERNMENT SCIENCE  
COLLEGE CHATRPUR, GANJAM.

SUBMITTED FOR THE PARTIAL FULFILLMENT OF  
+3 SCIENCE (ZOOLOGY HONOURS-DSE 4)  
EXAMINATION -2026

**SUBMITTED BY**

NAME – Kulai Sandhya Reddy

+3 FINAL YEAR SCIENCE

EXAM ROLL NO – CH2414122

CLASS ROLL NO – BS (B)-23-147

**UNDER THE GUIDANCE OF**

**DR. SHUCHISMITA BEHERA**

**ASSISTANT PROFESSOR IN ZOOLOGY**



DEPARTMENT OF ZOOLOGY GOVERNMENT SCIENCE  
COLLEGE, CHATRAPUR, GANJAM

## **DECLARATION**

I do hereby declare that the project work entitled "STUDY OF SOME STRESS INDICATORS AMONG COLLEGE STUDENTS OF GOVERNMENT SCIENCE COLLEGE" has been under taken. This work was conducted under the supervision of **Dr. Shuchismita Behera** and is submitted in partial fulfilment of the requirements for the 6<sup>th</sup> semester Undergraduate Science (Zoology Honours) Examination.

**Place:**

**Date:**

**Signature**

**A PROJECT REPORT ON**

**STUDY OF SOME STRESS INDICATORS AMONG  
COLLEGE STUDENTS OF GOVERNMENT SCIENCE  
COLLEGE CHATRAPUR, GANJAM.**

**SUBMITTED FOR THE PARTIAL FULFILLMENT OF  
+3 SCIENCE (ZOOLOGY HONOURS-DSE 4) EXAMINATION -2026**

**SUBMITTED BY**

**NAME – DEEPTIMAYEE NANDA**

**+3 FINAL YEAR SCIENCE**

**EXAM ROLL NO – CH2414110**

**CLASS ROLL No – BS (B)-23-148**

**UNDER THE GUIDANCE OF**

**DR. SHUCHISMITA BEHERA**

**ASSISTANT PROFESSOR IN ZOOLOGY**



**DEPARTMENT OF ZOOLOGY GOVERNMENT SCIENCE  
COLLEGE, CHATRAPUR, GANJAM**

### **DECLARATION**

I do hereby declare that the project work entitled "STUDY OF SOME STRESS INDICATORS AMONG COLLEGE STUDENTS OF GOVERNMENT SCIENCE COLLEGE" has been under taken. This work was conducted under the supervision of Dr. Shuchismita Behera and is submitted in partial fulfilment of the requirements for the 6<sup>th</sup> semester Undergraduate Science (Zoology Honours) Examination.

Place: Chhatrapur

Date: 20/03/2026

Deepti majhi  
Signature

## **A PROJECT REPORT ON**

**STUDY OF SOME STRESS INDICATORS AMONG  
COLLEGE STUDENTS OF GOVERNMENT SCIENCE  
COLLEGE CHATRAPUR, GANJAM.**

**SUBMITTED FOR THE PARTIAL FULFILLMENT OF  
+3 SCIENCE (ZOOLOGY HONOURS-DSE 4) EXAMINATION -2026**

### **SUBMITTED BY**

**NAME – JYOTI NAYAK**

**+3 FINAL YEAR SCIENCE**

**EXAM ROLL NO – CH2414118**

**CLASS ROLL No – BS (B)-23-151**

**UNDER THE GUIDANCE OF**

**DR. SHUCHISMITA BEHERA**

**ASSISTANT PROFESSOR IN ZOOLOGY**



**DEPARTMENT OF ZOOLOGY GOVERNMENT SCIENCE  
COLLEGE, CHATRAPUR, GANJAM**

## **DECLARATION**

I do hereby declare that the project work entitled "STUDY OF SOME STRESS INDICATORS AMONG COLLEGE STUDENTS OF GOVERNMENT SCIENCE COLLEGE" has been under taken. This work was conducted under the supervision of **Dr. Shuchismita Behera** and is submitted in partial fulfilment of the requirements for the 6<sup>th</sup> semester Undergraduate Science (Zoology Honours) Examination.

**Place:** Chatrapur

**Date:** 20/03/2026

*Tyoti Nayak*  
**Signature**

**A PROJECT REPORT ON**

**STUDY OF SOME STRESS INDICATORS AMONG  
COLLEGE STUDENTS OF GOVERNMENT SCIENCE  
COLLEGE CHATRAPUR, GANJAM.**

**SUBMITTED FOR THE PARTIAL FULFILLMENT OF  
+3 SCIENCE (ZOOLOGY HONOURS-DSE 4) EXAMINATION -2026**

**SUBMITTED BY**

**NAME - K ARCHANA PATRA**

**+3 FINAL YEAR SCIENCE**

**EXAM ROLL NO - CH2414120**

**CLASS ROLL No - BS (B)-23-154**

**UNDER THE GUIDANCE OF**

**DR. SHUCHISMITA BEHERA**

**ASSISTANT PROFESSOR IN ZOOLOGY**



**DEPARTMENT OF ZOOLOGY GOVERNMENT SCIENCE  
COLLEGE, CHATRAPUR, GANJAM**

### DECLARATION

I do hereby declare that the project work entitled "STUDY OF SOME STRESS INDICATORS AMONG COLLEGE STUDENTS OF GOVERNMENT SCIENCE COLLEGE" has been under taken. This work was conducted under the supervision of **Dr. Shuchismita Behera** and is submitted in partial fulfilment of the requirements for the 6<sup>th</sup> semester Undergraduate Science (Zoology Honours) Examination.

**Place:** Chatrapur

**Date:** 20/03/2026

K. Archana Patra  
**Signature**

**PROJECT REPORT ON**  
**A REVIEW ON HEAVY METAL EXPOSURE AND FISH**  
**REPRODUCTIVE SYSTEM IN GANJAM DISTRICT**



Project submitted in Partial Fulfillment of  
The Under Graduate Degree in Zoology

**SUBMITTED BY**

**SITARATNAM PANDA**

+3 3<sup>rd</sup> Year (6<sup>th</sup> Semester)

Roll Number: - BSC-B-(23)-155

Exam Roll no: - CH2414146

Registration no: - 03686/2023

**GUIDED BY**

**DR. DIANA PRADHAN**

(H.O.D.) Department of Zoology

**CO GUIDED BY**

**DR. SUCHISMITA BEHERA**

GOVERNMENT SCIENCE COLLEGE, CHATRAPUR, GANJAM

2026/06/08 16:25

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sitaratnam panda

GOVERNMENT SCIENCE COLLEGE, CHATRAPUR, GANJAM, ODISSA



**DECLARATION**

I Miss. Sitaratnam Panda, B.Sc. Honours Zoology Govt. Science College, Ganjam hereby declare that the project was done by me under the guidance of Dr. Diana Pradhan, H.O.D. in Zoology Department and co-guided by Dr. Suchanika Behera for the submission of report as need for 6<sup>th</sup> Semester 2024.

*Sitaratnam Panda*  
Signature of Student

External Examiner

Internal Examiner

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TECNO  
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sitaratnam panda

GOVERNMENT SCIENCE COLLEGE, CHATRAPUR  
DEPARTMENT OF ZOOLOGY



A PROJECT REPORT ON  
A Review on Heavy Metal Exposure and Fish  
Reproduction in Ganjam District, Odisha

Project Report submitted for the partial fulfilment of sixth semester  
+3 science (Zoology Honours) Examination, 2026

*Submitted by*

JYOTIRMAYEE PANIGRAHI

Class Rollno: BS (B)-23-156

Exam Rollno: CH2414119

*Under the guidance of*

Dr. DIANA PRADHAN

HOD of Zoology

*Co Guided by*

Dr. Suchismita Behera

### DECLARATION

I, Jyotirmayee Panigrahi BS (B)-23-156, A student of the department of Zoology, hereby declare that the thesis entitled "A Review on Heavy Metal Exposure and Fish Reproduction in Ganjam District, Odisha" is the result of my original research, conducted under the guidance of Dr. Diana Pradhan. I affirm that this work has not been submitted, either in part or in full, to this college or any other institution or university for the award of any degree.

Jyotirmayee Panigrahi  
Full signature

Date: 23.03.2024

Place: Chatrapur

**A PROJECT REPORT ON**

**A REVIEW ON HEAVY METAL EXPOSURE AND  
FISH RE PRODUCTION IN GANJAM DISTRICT**

**Project Report Submitted For The Partial Fulfillment  
of 6<sup>th</sup> Semester**

**+3 Science (Zoology Hons) Examination, 2026**

**NAME - MITAN SWATI REDDY**

**CLASS - +3 SCIENCE**

**ROLL NO.- BS(B)-23-160**

**EXAM ROLL NO – CH2414126**

**GUIDE - Dr. Diana Pradhan**

**H.O.D. Of Zoology**

**CO GUIDED BY - DR. Suchismita Behera**

**DEPARTMENT OF ZOOLOGY**



**ଘଟାପୁର ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର, ଓଡ଼ିଶା  
Government Science College, Chatrapur, Ganjam, Odisha**

## DECLARATION

I **Mitan Swati Reddy** Roll No.- [CH22414126] the student of the Department of **Zoology** do hereby declare that the thesis entitled "A Review on Heavy Metal Exposure and Fish Reproduction In Ganjam District" embodies our original research work carried out under the guidance of **Dr.Diana Pradhan, H.O.D in Zoology, Govt. 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 other degree either in part or full.

Place: *Chatrapur*

Date: *20/03/26*

**Mitan Swati Reddy**

**Exam Roll No. CH2414126**

**+3 Final Year, Zoology**

**GOVERNMENT SCIENCE COLLEGE, CHATRAPUR**

**DEPARTMENT OF ZOOLOGY**



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A PROJECT REPORT ON

**A REVIEW ON HEAVY METAL EXPOSURE AND  
FISH REPRODUCTION IN GANJAM DISTRICT**

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A PROJECT REPORT SUBMITTED TO

**GOVERNMENT SCIENCE COLLEGE, CHATRAPUR**

In Partial Fulfilment for the Award of Bachelor Degree in  
Science (Zoology Hons.) Session 2023-26

Under Berhampur University, Berhampur, Ganjam

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*Under the Guidance of*

**Dr. Diana Pradhan**

Assistant professor in Zoology

Co Guided by

Dr. Suchismita Behera

*Submitted by*

**N. HARAPRIYA REDDY**

+3 Jrd Year (Zoology Hons.)

Roll No.: BSe(B)-23-161

Regd. No.: 03633/2023

---

GOVERNMENT SCIENCE COLLEGE, CHATRAPUR  
DEPARTMENT OF ZOOLOGY



DECLARATION

I Miss. N. Harapriya Reddy, B.Sc. Honours Zoology, Government Science College, Chatrapur, hereby declare that the project was done by me under the guidance of Dr. Diana Pradhan, Assistant professor in Zoology Department, for the submission of report as need for 6th Semester 2023.

*N. Harapriya Reddy*  
Signature of Student

External Examiner

Internal Examiner

**A Project Report on**  
**A Review on Heavy Metal Exposure**  
**and Fish Reproduction in Ganjam**  
**District**



**Submitted by : Ankita Raula**

Class : UG 3<sup>rd</sup> year

Exam Roll no : CH2414105

Class Roll no : Bsc (B)-23-163

**Guided by: Dr.Diana Pradhan**

Department of Zoology

Govt Science College, Chatrapur

Affiliated to Berhempur University

## DECLARATION

I hereby declare that the project entitled "**A Review on Heavy Metal Exposure and Fish Reproduction in Ganjam District**" submitted by me is a record of my original work carried out under the guidance of **Dr Diana Pradhan** Department of **Zoology, Govt Science college Chatrapur**.

I further declare that this project has not been submitted by me for the award of any other degree or diploma in any university or institution.

Date:

Place: Chatrapur

**Ankita Raula**

Zoology / CH2414105

Department of zoology

Govt Science College, Chatrapur

**GOVERNMENT SCIENCE COLLEGE, CHATRAPUR**

**DEPARTMENT OF ZOOLOGY**



---

A PROJECT REPORT ON

**A REVIEW ON HEAVY METAL EXPOSURE AND  
FISH REPRODUCTION IN GANJAM DISTRICT**

---

A PROJECT REPORT SUBMITTED TO

**GOVERNMENT SCIENCE COLLEGE, CHATRAPUR**

In Partial Fulfilment for the Award of Bachelor Degree in  
Science (Zoology Hons.) Session 2023-26

**Under Berhampur University, Berhampur, Ganjam**

---

*Under the Guidance of*

**Dr. Diana Pradhan**  
Assistant professor in Zoology  
Co Guided by  
**Dr. Suchismita Behera**

*Submitted by*

**SNEHA NAHAK**  
+3 3rd Year (Zoology Hons.)  
Roll No.: BSc(B)-23-164  
Regd. No.: 03690/2023

**GOVERNMENT SCIENCE COLLEGE, CHATRAPUR**  
**DEPARTMENT OF ZOOLOGY**



**DECLARATION**

I **Miss. Sneha Nahak**, B.Sc. Honours Zoology, Government Science College, Chatrapur, hereby declare that the project was done by me under the guidance of **Dr. Diana Pradhan**, Assistant professor in Zoology Department, for the submission of report as need for 6th Semester 2024.

*Sneha Nahak*  
Signature of Student

External Examiner

Internal Examiner

**A Project Report on**  
**A Review Heavy Metal Exposure And fish**  
**Reproduction In Ganjam District**



ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର

**Project submitted in partial fulfillment of**  
**The Under Graduate Degree in Zoology**

**Submitted by**

**SUMAN RANI GOUDA**

**+3 Science 3<sup>rd</sup> year**

**Exam Roll No. - CH2414152**

**College Roll No. - BS (B) -23-167**

**Under the Guidance of**

**Dr. Diana Pradhan**

**Co Guided by**

**Dr. Suchismita Behera**

**Department of Zoology**

**Government Science College, Chatrapur, Ganjam, Odisha**

## DECLARATION

I Suman Rani Gouda (BS-23-167) the student of Department of Zoology do hereby declare that the thesis entitled A review on Heavy metal exposure and fish reproduction in Ganjam District embodies our original research work carried out under the guidance of Dr. Dianna Pradhan, Assistant professor in zoology, Government Science College Chatrapur

Suman Rani Gouda  
Full Signature

**PROJECT REPORT ON**  
**A REVIEW ON HEAVY METAL EXPOSURE AND FISH**  
**REPRODUCTIVE SYSTEM IN GANJAM DISTRICT**



Project submitted in Partial Fulfillment of  
The Under Graduate Degree in Zoology

**SUBMITTED BY**

**G MAMATA PATRA**

+3 3<sup>RD</sup> Year (6<sup>TH</sup> Semester)

Roll Number: - BSC-B-(23)-169

Exam Roll no: - CH2414114

**GUIDED BY**

**DR. DIANA PRADHAN**

(H.O.D.) Department of Zoology

**CO GUIDED BY**

**DR. SUCHISMITA BEHERA**

GOVERNMENT SCIENCE COLLEGE, CHATRAPUR, GANJAM

## DECLARATION

I G Mamata patra [CH2414114], hereby declare that the project work entitled "A Review on Heavy Metal Exposure and Fish reproduction in Ganjam district" 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. Diana Pradhan and is submitted in individual fulfillment of the requirements for the 6<sup>th</sup> semester Undergraduate Science (Zoology Honours) Examination.

Place: *Chatrapur*

Date: *20/03/26*

*G Mamata Patra*  
Full Signature

**CORRELATIONSHIP BETWEEN  
HEAVY METAL EXPOSURE AND  
FISH REPRODUCTION**

A PROJECT REPORT SUBMITTED FOR  
+3 FINAL YEAR SCIENCE (UNDER CBCS SYLLABUS) EXAMINATION - 2026

**Submitted By:**

**MANYATA PRIYADARSHINI**

+3 FINAL YEAR SCIENCE  
EXAM ROLL NO.: CH2414125

**Guided By:**

**DR. DIANA PRADHAN**  
LECTURER IN ZOOLOGY

GOVERNMENT SCIENCE COLLEGE, CHATRAPUR

## DECLARATION

I, Manyata Priyadarshini, hereby declare that the project entitled "*A Review on Heavy Metal Exposure and Fish Reproduction in Ganjam District*" is my original work carried out under the guidance of Dr. Diana Pradhan.

I further declare that this work has not been submitted elsewhere for the award of any degree. All the information and data used in this project have been properly acknowledged and cited.

*Manyata Priyadarshini*

Student Name: Manyata Priyadarshini

Course: B.Sc. Zoology (Hons.), 6th Semester



**GOVERNMENT SCIENCE COLLEGE, CHATRAPUR**

**DEPARTMENT OF ZOOLOGY**



**A PROJECT REPORT ON**

**A Review on Heavy Metal Exposure and Fish Reproduction in  
Ganjam district, Odisha**

Project report submitted for the partial fulfillment of 6<sup>th</sup> semester  
+3 science (zoology honours) examination, 2026

**SUBMITTED BY**

*Ch Tejeswari Reddy*

*Class roll no. : B5(B)-23-194*

*Exam roll no. : CH2414108*

**UNDER THE GUIDANCE OF**

*Dr. Diana Pradhan*

*H.O.D. of Zoology*

**CO GUIDED BY**

*Dr. Suchismita Behera*

## DECLARATION

I Ch Tejeswari Reddy [Roll no.-CH22414108] the student of the Department of Zoology do hereby declare that the thesis entitled "A Review on Heavy Metal Exposure and Fish Reproduction In Ganjam District" embodies our original research work carried out under the guidance of Dr.Diana Pradhan, H.O.D in Zoology, Govt. 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 other degree either in part or full.

Place:

Date:

Ch Tejeswari Reddy

Exam Roll No. CH2414108

+3 final Year, Zoology