

**Survey of plant diversity in the nearby area of
Tampara Lake**

DISSERTATION SUBMITTED FOR THE PARTIAL FULFILMENT
OF THE BACHELOR DEGREE IN BOTANY (SESSION 2023-
2026)

BY

A. NAMITA PATRA

Exam Roll No.- CH2414008

Class Roll No.- BS(B)-23-127

Registration No.- 03559/2023

UNDER THE GUIDANCE

OF

DR. (MRS) S.S.SARDAR

LECTURER

DEPARTEMENT OF BOTANY



GOVERNMENT SCIENCE COLLEGE, CHATRAPUR

Odisha -761020

DECLARAION

I hereby declare that the project entitled

Survey of plant diversity in the nearby area of Tampara Lake.

has been carried out by me under the supervision and guidance of Dr. Pranati Nayak (HOD) and Dr. (Mrs.) S. S. Sardar, Assistant Professor (PG & UG), Department of Botany, Government Science College, Chatrapur.

To the best of my knowledge and belief, this project work is original and has not been submitted elsewhere for the award of any degree, diploma, or other academic qualification.

Place: Chatrapur

Date:

A Namita Patra
Signature

GOVERNMENT SCIENCE COLLEGE CHATRAPUR



A project report on **Ethnobotanical treatments of** **snake bites**

Submitted in partial fulfillment of the requirement for
the award of degree of
B.Sc.in BOTANY

Submitted by –

ABHIJIT JENA

ROLL.no– CH2414009

Regd.no– 03561/2023

SIXTH SEMESTER

Under the guidance of

Ms.Ipsita Palai

(lecturer)

DECLARATION

I do hereby declare that the dissertation entitled “Ethnobotanical Treatment of Snake Bites”, being submitted to Berhampur University in partial fulfillment of the requirements for the award of the Bachelor’s Degree in BOTANY HONOURS, is the outcome of independent research carried out by me under the guidance of **Ms Ipsita Palai (Lecturer)**, Department of Botany, Govt. science college, Chatrapur

Place : Govt Science Collage Chatrapur

Date : 26th March 2026

Abhijit Jena
Signature of the student

“BEYOND THE SPICE :

***AN IN-SILICO “TRIPLE-THREAT”
ANALYSIS OF CURCUMA LONGA
IN SKIN LONGEVITY”***

**DISSERTATION SUBMITTED FOR THE
PARTIAL FULFILMENT OF THE
BACHELOR DEGREE IN BOTANY
(SESSION 2023–2026)**

**BY
ADITYA GHANASHYAM SAHU**

**Exam Roll No. - CH2414010
Class Roll No. - BS(B)-23-055
Regd. No. - 03563/2023**

**UNDER THE GUIDANCE OF
DR. MILIMITA PADHI
LECTURER
DEPARTMENT OF BOTANY**



**GOVT. SCIENCE COLLEGE, CHATRAPUR,
ODISHA - 761020**

DECLARATION

I, Aditya Ghanashyam Sahu, hereby declare that the project report entitled "**BEYOND THE SPICE : AN IN-SILICO "TRIPLE-THREAT" ANALYSIS OF CURCUMA LONGA IN SKIN LONGEVITY**" submitted to the Department of Botany, Government Science College, Chatrapur, is a record of original work done by just me.

All the software analysis, molecular docking results, and data interpretations presented in this report are true to the best of my knowledge.

Signature of Student: *Aditya Ghanashyam Sahu,*

Name: Aditya Ghanashyam Sahu ,

Roll No. : CH2414010 ,

Government Science College, Chatrapur.

"ASSESSMENT OF HYDROPHYTIC
PLANT DIVERSITY :
ANGIOSPERMS IN TAMPARA LAKE"

**DISSERTATION SUBMITTED FOR
THE PARTIAL FULFILMENT OF THE BACHELOR DEGREE
IN BOTANY (SESSION 2023-2026)**

BY

ARDU BINOD

**EXAM ROLL NO :- CH2414012
CLASS ROLL NO :- BS(B)-23-174
REGISTRATION NO :- 03573/2023**

**UNDER THE GUIDANCE
OF
Miss. ANKITA PATTHAIK
GUEST FACULTY
DEPARTMENT OF BOTANY**



**GOVT. SCIENCE COLLEGE, CHATRAPUR
ODISHA -761020**

DECLARATION

I hereby declare that the project report entitled " Assessment of Hydrophytic Plant Diversity; Angiosperms in Tampara lake" being submitted by me to Government Science College, Chatrapur for the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science (Botany) is an original and authentic research work conducted by myself under the supervision of Miss Ankita Pattnaik, Guest Faculty in Botany, Department of Botany, Government Science College, Chatrapur. No part of this work or in full form has been submitted to any other institute for a similar Degree or Diploma. The assistance and help received during the course of this investigation have been duly acknowledged.

Ardu Binod 26.03, 2024

Ardu Binod

Roll no- CH2414012

Registration no- 03573/2023

**A PROJECT REPORT ON
MUSHROOM CULTIVATION (*VOLVARIELLA VOLVACEA*)
USING AGRO WASTE
PROJECT REPORT DSE -4,6th SEMESTER**



NAME : *BARSA RANI DASH*
REGD NO: *09580/2023*
COLLEGE ROLL NO: *BSC(B)23-051*
EXAM ROOL NO : *CH2414015*

GUIDED BY SMT. MILI MITA PADHI
(LECTURER IN DEARTMENT OF BOTANY)



**DEPARTMENT OF BOTANY
GOVERNMENT SCIENCE COLLEGE,
CHATRAPUR, GANJAM, ODISHA**

BERHAMPUR UNIVERSITY, BERHAMPUR

BARSHA RANI DASH
DEPARTMENT OF BOTANY
GOVERNMENT SCIENCE COLLEGE, CHATRAPUR
CHATRAPUR 761020
ODISHA

DECLARATION

I do hereby declare that the work presented in this project as "MUSHROOM CULTIVATION (VOLVARIELLA VOLVACEA) USING AGRO WASTE" carried out by me and my friends **BARSA RANI DASH, MEGHNA MUDULI, DEEPTIMAYEE PANDA** is an original work submitted by me in the partial fulfillment for degree of undergraduate in science in Botany, Govt. Science College, Chatrapur under Berhampur University. This is an original work done by me under the guidance and supervision of Dr. Pranati Nayak, Assistant Professor, HOD, Department of Botany, Govt. Science College Chatrapur, Pin-761020.

Further, I declare that it has not been submitted or published, so far, partially or fully for the degree of B.Sc. or any other degree of any college or institute.

Name - Barsha Rani Dash
Exam Roll. NO = CH2414015,
Roll. NO = BSC08-23-051

**A PROJECT REPORT ON
MUSHROOM CULTIVATION (*VOLVARIELLA VOLVACEA*)
USING AGRO WASTE
PROJECT REPORT DSE -4,6th SEMESTER.**



**NAME: DEEPTIMAYEE PANDA
REGD NO: 03590/2023
COLLEGE ROLL NO: BSC(B)23-028
EXAM ROLL NO: CH2414019**

**GUIDED BY SMT. MILI MITA PADHI
(LECTURER IN DEPARTMENT OF BOTANY)**



**DEPARTMENT OF BOTANY
GOVERNMENT SCIENCE COLLEGE,
CHATRAPUR, GANJAM, ODISHA**

BERHAMPUR UNIVERSITY, BERHAMPUR

DEEPTIMAYEE PANDA
DEPARTMENT OF BOTANY
GOVERNMENT SCIENCE COLLEGE, CHATRAPUR
CHATRAPUR 761020
ODISHA

DECLARATION

I do hereby declare that the work presented in this project as "MUSHROOM CULTIVATION (VOLVARIELLA VOLVACEA) USING AGRO WASTE" carried out by me and my friends DEEPTIMAYEE PANDA, BARSA RANI DASH, MEGHNA MUDULI, is an original work submitted by me in the partial fulfillment for degree of undergraduate in science in Botany, Govt. Science College, Chatrapur under Berhampur University. This is an original work done by me under the guidance and supervision of Dr. Pranati Nayak, Assistant Professor, HOD, Department of Botany, Govt. Science College Chatrapur, Pin-761020.

Further, I declare that it has not been submitted or published, so far, partially or fully for the degree of B.Sc. or any other degree of any college or institute.

Name-Deepthimayee Panda
Roll NO- (BS(B))- 28-028
Exam Roll NO- CH2414019

Deepthimayee Panda
Signature

BERHAMPUR UNIVERSITY



ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର

DEPARTMENT OF BOTANY

A STUDY ON THE EFFECT OF SALT STRESS
ON SEED GERMINATION OF
Cicer arietinum L.



SUBMITTED BY
JHANSEE BEHERA
Bsc(B)-23-075
Exam Roll no - CH2414021

SUPERVISOR
IPSITA PALAI
Lecturer in Botany
Department of Botany

DECLARATION

I do here by declare that the work presented in this project as "*Effect of Salt Stress on Seed Germination of "Cicer arietinum L."*" carried out by **JHANSEE BEHERA**, roll no. **CH2414021** is an original work done submitted by me in the partial fulfillment for degree of undergraduate in science in Botany, Govt. Science college, Chhatarpur under Berhampur University. This is an original work done by me under the guidance and supervision of Miss. Ipsita Palai, **ASSISTANT PROFESSOR**, Department of Botany, Govt. Science College Chhatarpur, Pin-761020

Further, I declare that it has not been submitted or published, so far, partially or fully for the degree of B.Sc. or any other degree of any college or institute.

Chhatarpur

Jhansee Behera
Signature

BERHAMPUR UNIVERSITY



GOVERNMENT SCIENCE COLLEGE, CHATRAPUR
2023-2026

U.G DEPARTMENT OF BOTANY
6TH SEMESTER PROJECT SUBMITTED

ON

TOPIC:- HYDROPONIC
The Watercultur System
(Mung Plant)

SUBMITTED By

NAME: JYOTI MANDAL

ROLL NO:BS(B)23-177

EXAM ROLL NO :CH2414022

REGISTRATION NO:03607/2023

UNDER THE GUADANCE OF

Miss Ankita Pattnaik , faculty in Botany

&

Dr.Pranati Nayak

(Assistant Professor & H.O.D , Department of Botany)

DECLARATION

I hereby declare that the project report entitled "Hydroponics:- The Water Culture Hydroponic System" being submitted by me to Government Science College, Chatrapur for the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science (Botany) is an original and authentic research work conducted by myself under the supervision of Miss Ankita Pattnaik, Guest Faculty, in Botany, Department of Botany, Government Science College, Chatrapur. No part of this work or in full form has been submitted to any other institute for a similar Degree or Diploma. The assistance and help received during the course of this investigation have been duly acknowledged.

Jyoti Mandal
Miss Jyoti Mandal
Roll no. CH2414022
Registration no. 03607/2023

**PROJECT ON
TRADITIONAL PLANT-BASED REMIDES AN
ETHNOBOTANYCAL STUDY**

DISSERTATION SUBMITTED FOR THE
PARTIAL FULFILMENT OF THE
BACHELOR DEGREE IN BOTANY
(SESSION 2023-2026)

**SUBMITTED BY
JYOTI PRIYADARSANEE NAYAK**

Exam Roll No.- CH2414023
Class Roll No.- BS(B)-23-073
Registration No.- 03609/2023

UNDER THE GUIDANCE
OF
IPSITA PALAI
LECTURER IN BOTANY
DEPARTEMENT OF BOTANY



GOVT. SCIENCE COLLEGE, CHATRAPUR

ODISHA - 761020

DECLARATION

I do hereby declare that the work presented in this project as "..." Carried out by **Jyoti Priyadarsanee Nayak**, Roll no. **CH2414023** is an original work done submitted by me in the partial fulfillment for degree of under graduate in science in Botany, Govt. Science college, Chatrapur under Berhampur University. This is an original work done by me under the guidance and supervision of **IPSITA PALAI**, Lecturer, Department of Botany, Govt. Science college Chatrapur, Pin-761020

Further, I declare that it has not been submitted or published, so far, partially or fully for the degree of B.Sc. or any other degree of any college or institute.

Jyoti Priyadarsanee Nayak
Jyoti Priyadarsanee Nayak
Exam Roll no: CH2414023
Reg. no.: 03609/2023

"ASSESSMENT OF HYDROPHYTIC
PLANT DIVERSITY :
ANGIOSPERMS IN TAMPARA LAKE"

**DISSERTATION SUBMITTED FOR
THE PARTIAL FULFILMENT OF THE BACHELOR DEGREE
IN BOTANY (SESSION 2023-2026)**

BY

K SUBHASHRI DORA

EXAM ROLL NO :-CH2414025

CLASS ROLL NO :- BS(B)-23-149

REGISTRATION NO :-03614/2023

**UNDER THE GUIDANCE
OF**

**DR. (MRS) S.S. SARDAR
ASSISTANT PROFESSOR OF
DEPARTMENT OF BOTANY**



ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଚତ୍ରପୁର

**GOVT. SCIENCE COLLEGE, CHATRAPUR
ODISHA -761020**

DECLARATION

I hereby declare that the project report entitled " Assessment of Hydrophytic Plant Diversity: Angiosperms in Tampara lake" being submitted by me to Government Science College, Chatrapur for the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science (Botany) is an original and authentic research work conducted by myself under the supervision of Miss Ankita Pattnaik, Guest Faculty in Botany, Department of Botany, Government Science College, Chatrapur. No part of this work or in full form has been submitted to any other institute for a similar Degree or Diploma. The assistance and help received during the course of this investigation have been duly acknowledged.

K Subhashri Dora
K Subhashri Dora
Roll no- CH2414025
Registration no- 03614/2023

THE IMPACT OF FUNGI ON BREAD: FROM FERMENTATION TO SPOILAGE

DISSERTATION SUBMITTED FOR THE
PARTIAL FULFILMENT OF THE BACHELOR DEGREE
IN BOTANY (SESSION 2023–2026)

BY

KIRAN PRADHAN

Exam Roll No.- CH2414026
Class Roll No.- BS(B)-23-178
Registration No.- 03617/2023

UNDER THE GUIDANCE OF

DR. PRANATI NAYAK

HEAD OF THE DEPARTEMENT OF BOTANY



GOVT. SCIENCE COLLEGE, CHATRAPUR

ODISHA – 761020

DECLARATION

I do hereby declare that the dissertation entitled "**The Impact of Fungi on Bread: From Fermentation to Spoilage**", being submitted to Government Science College, Chatrapur in partial fulfillment of the requirements for the award of the Bachelor's Degree in BOTANY, is the outcome of a collaborative research carried out by me and my friend Rohan Sahu under the joint guidance of Dr. Pranati Nayak, Asst. Prof., and Dr. Milimita Padhi, Jr. Lecturer, Department of Botany, Govt. science college, Chatrapur.

Kiran Pradhan
Kiran Pradhan

Exam Roll No.- CH2414026

Registration No.- 03617/2023

Rohan Sahu.
Rohan Sahu

Exam Roll No.- CH2414034

Registration No.- 03663/2023

A project report on

***Bougainvillea* : A comprehensive review with special emphasis on its ornamental value**

Submitted for the Partial fulfillment of the degree in BSc in Botany

Submitted By:-

Mamali Das

BSc Final Year 6th Semester

Exam Roll No. - DI/2414027

Supervised By:-

Dr. Pragati Nayak

Asst. Professor of Botany



ଶରଣାଦୀ ବିଶ୍ୱାସ ନିହାତବ୍ୟାମନ, ଚତ୍ରପୁର

Department of Botany

Govt. Science College, Chatrapur, Ganjam

March 2025

DECLARATION

I hereby declare that the project report entitled "*Bougainvillea: A comprehensive review with special emphasis on its ornamental value*" being submitted by me to Government Science College, Chatrapur for the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science (Botany) is an original and authentic research work conducted by me under the supervision of Dr. Pranati Nayak, Asst. Prof., Department of Botany, Government Science College, Chatrapur. No part of this work or in full form has been submitted to any other institute for a similar Degree or Diploma. The assistance and help received during the course of this investigation have been duly acknowledged.

Mamali Das

Ms. Mamali Das

Roll no. CH2414027

Registration no. 03621/23

**A PROJECT REPORT ON
MUSHROOM CULTIVATION (*VOLVARIELLA VOLVACEA*)
USING AGRO WASTE
PROJECT REPORT DSE -4,6th SEMESTER**



NAME : MEGHNA MUDULI
REGD NO : 03626/2023
COLLEGE ROLL NO : BSC(B)23-024
EXAM ROLL NO : CH2414028

GUIDED BY SMT. MILI MITA PADHI
(LECTURER IN DEPARTMENT OF BOTANY)



DEPARTMENT OF BOTANY
GOVERNMENT SCIENCE COLLEGE,
CHATRAPUR, GANJAM, ODISHA

BERHAMPUR UNIVERSITY, BERHAMPUR

MEGHNA MUDULI
DEPARTMENT OF BOTANY
GOVERNMENT SCIENCE COLLEGE, CHATRAPUR
CHATRAPUR 761020
ODISHA

DECLARATION

I do hereby declare that the work presented in this project as "MUSHROOM CULTIVATION (VOLVARIELLA VOLVACEA) USING AGRO WASTE" carried out by me and my friends MEGHNA MUDULI, BARSANI RANI DASH, DEEPTIMAYEE PANDA is an original work submitted by me in the partial fulfillment for degree of undergraduate in science in Botany, Govt. Science College, Chatrapur under Berhampur University. This is an original work done by me under the guidance and supervision of Dr. Pranati Nayak, Assistant Professor, HOD, Department of Botany, Govt. Science College Chatrapur, Pin-761020.

Further, I declare that it has not been submitted or published, so far, partially or fully for the degree of B.Sc. or any other degree of any college or institute.

Name - Meghna Muduli
College Roll No. - BSC(B)-23-024
Exam Roll No. - CH2414028

Chatrapur

Meghna Muduli
Signature

***"EFFECT OF HEAVY METAL (CHROMIUM) TREATMENT ON
MORPHOLOGICAL, PHYSIOLOGICAL AND ANATOMICAL CHARACTERISTICS
OF CHICKPEA (CICER ARIETINUM L.) PLANT IN HYDROPONIC CULTURE"***

A DISSERTATION SUBMITTED TO BERHAMPUR UNIVERSITY

IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR AWARD IN THE BACHLOR DEGREE

IN BOTANY BY

NAGAL JAGANNATH

Exam Roll No : CH2414029

Class Roll No : BS(B)-23-158

Registration No : 03636/2023

UNDER SUPERVISION AND GUIDANCE OF

DR. SUCHHNATA SARDAR

ASSISTANT PROFESSOR IN BOTANY DEPARTMENT

GOVT. SCIENCE COLLEGE, CHATRAPUR



ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର

DEPARTMENT OF BOTANY

GOVT. SCIENCE COLLEGE, CHATRAPUR, ODISHA -761020

(SESSION 2023-2026)

DECLARATION

I do hereby declare that the dissertation entitled "**EFFECT OF HEAVY METAL (CHROMIUM) TREATMENT ON MORPHOLOGICAL, PHYSIOLOGICAL AND ANATOMICAL CHARACTERISTICS OF CHICKPEA (CICER ARIETINUM L.) PLANT IN HYDROPONIC CULTURE**" being submitted to Berhampur University in partial fulfillment of the requirements for the award of the Bachelor's Degree in BOTANY HONOURS, is the outcome of independent research carried out by me under the guidance of Dr. Suchhinata Sardar Assistant Professor, Department of Botany, Govt. Science College, Chatrapur.

Place: Chatrapur

Date: 26.03.20

N. Jagannath

SIGNATURE OF THE STUDENT

A COMPLETE REVIEW ON

Cocos nucifera

**Dissertation Submitted For The
Partial Fulfilment Of The
Bachelor Degree In Botany
(Session 2023-2026)**

BY

PRAPHULLO BEHERA

Exam Roll No.- CH2414031

Class Roll No.- BS(B)-23-159

Registration No.- 03648/2023

**Under The Guidance
Of**

**DR. PRANATI NAYAK
ASSISTANT PROFESSOR
DEPARTEMENT OF BOTANY**



**GOVT. SCIENCE COLLEGE, CHATRAPUR
ODISHA - 761020**

DECLARATION

I do hereby declare that the dissertation entitled "**A COMPLETE REVIEW ON Cocos nucifera**", being submitted to Government Science College, Chatrapur in partial fulfillment of the requirements for the award of the Bachelor's Degree in BOTANY, is the outcome of a collaborative research carried out by me under the joint guidance of Dr. Pranati Nayak, Asst. Prof., Department of Botany, Govt. science college, Chatrapur.

Praphullo Behera

PRAPHULLO BEHERA

Exam Roll no.: CH2414031

Reg. no.: 03648/2023

BERHAMPUR UNIVERSITY



ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର

DEPARTMENT OF BOTANY

*Traditional Plant-Based Remedies:
An Ethnobotanical Study*



SUBMITTED BY
PRIYANKA PRIYADARSHINI SAHU
Bsc(B)-23-052
Exam Roll no - CH2414032

SUPERVISOR
IPSITA PALAI
Lecturer in Botany
Department of Botany

DECLARATION

I do here by declare that the work presented in this project as "..." Carried out by **Priyanka priyadarshini sahu**, Roll no. **CH2414032** is an original work done submitted by me in the partial fulfillment for degree of undergraduate in science in Botany, **Govt. Science college, Chatrapur under Berhampur University**. This is an original work done by me under the guidance and supervision of **IPSITA PALAI**, Lecturer, Department of Botany, Govt. Science college Chatrapur, Pin-761020

Further, I declare that it has not been submitted or published, so far, partially or fully for the degree of B.Sc. or any other degree of any college or institute.


Priyanka priyadarshini sahu

Exam Roll no.: CH2412032

Reg, no.: 03652/2023

**EFFECTS OF TIN CHLORIDE TREATMENT ON
MORPHOLOGICAL, PHYSIOLOGICAL AND ANATOMICAL
CHARACTERISTICS OF CHICKPEA (*Cicer arietinum* L.)
PLANT IN HYDROPHONIC CULTURE**

DISSERTATION SUBMITTED FOR THE
PARTIAL FULFILMENT OF THE
BACHELOR DEGREE IN BOTANY
(SESSION 2023–2026)

BY

RANJIT SAHU

Exam Roll No.- CH2414033

Class Roll No.- BS(B)-23-153

Registration No.- 03658/2023

UNDER THE GUIDANCE

OF

DR. (MRS) S.S.SARDAR

LECTURER

DEPARTEMENT OF BOTANY



GOVT. SCIENCE COLLEGE, CHATRAPUR
Odisha -761020

DECLARATION

I hereby declare that the project entitled

Effect of Heavy Metal Treatment on Morphological,
Physiological and Anatomical Characteristics of Chickpea (*Cicer
arietinum* L.) Plant in Hydroponic

has been carried out by me under the supervision and guidance
of Dr. Pranati Nayak (HOD) and Dr. (Mrs.) S. S. Sardar,
Assistant Professor (PG & UG), Department of Botany,
Government Science College, Chatrapur.

To the best of my knowledge and belief, this project work is
original and has not been submitted elsewhere for the award of
any degree, diploma, or other academic qualification.

Place: Chatrapur

Date: 26/3/2026

Signature: Ranjita Sarker

THE IMPACT OF FUNGI ON BREAD: FROM FERMENTATION TO SPOILAGE

**DISSERTATION SUBMITTED FOR THE
PARTIAL FULFILMENT OF THE
BACHELOR DEGREE IN BOTANY
(SESSION 2023–2026)**

**BY
ROHAN SAHU**

**Exam Roll No.- CH2414034
Class Roll No.- BS(B)-23-044
Registration No.- 03663/2023**

**UNDER THE GUIDANCE
OF
DR. MILIMITA PADHI
LECTURER
DEPARTEMENT OF BOTANY**



**GOVT. SCIENCE COLLEGE, CHATRAPUR
ODISHA – 761020**

DECLARATION

I do hereby declare that the dissertation entitled "**The Impact of Fungi on Bread: From Fermentation to Spoilage**", being submitted to Government Science College, Chatrapur in partial fulfillment of the requirements for the award of the Bachelor's Degree in BOTANY, is the outcome of a collaborative research carried out by me and my friend Kiran Pradhan under the joint guidance of Dr. Pranati Nayak, Asst. Prof., and Dr. Milimita Padhi, Lecturer, Department of Botany, Govt. science college, Chatrapur.

Rohan Sahu

Rohan Sahu

Exam Roll no.: CH2412034

Reg. no.: 03663/2023

Kiran Pradhan

Kiran Pradhan

Exam Roll no.: CH2414026

Reg. no.: 03617/2023

BERHAMPUR UNIVERSITY



GOVERNMENT SCIENCE COLLEGE, CHATRAPUR
2023-2026

U.G DEPARTMENT OF BOTANY
6TH SEMESTER PROJECT SUBMITTED

ON

TOPIC:- HYDROPONIC
The Waterculter System
(Coriander Plant)

SUBMITTED By

NAME:ROSAN GOUDA

ROLL NO:BS(B)23-192

EXAM ROLL NO :CH2414035

REGISTRATION NO:03665/2023

UNDER THE GUADANCE OF

Miss Ankita Pattnaik , faculty in Botany

&

Dr.Pranati Nayak

(Assistant Professor & H.O.D , Department of Botany)

DECLARATION

I hereby declare that the project report entitled "Hydroponics:- The Water Culture Hydroponic System" being submitted by me to Government Science College, Chatrapur for the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science (Botany) is an original and authentic research work conducted by myself under the supervision of Miss Ankita Pattnaik, Guest Faculty, in Botany, Department of Botany, Government Science College, Chatrapur. No part of this work or in full form has been submitted to any other institute for a similar Degree or Diploma. The assistance and help received during the course of this investigation have been duly acknowledged.

Rosan Gouda

Mr. Rosan Gouda,
Roll no. CH2414035
Registration no. 03665/2023



A project report on
Effect of salt stress on seed germination of
Brassica nigra

Submitted in partial fulfillment of the requirement for
the award of degree of
B.Sc.in BOTANY

Submitted by –

Rupali Sahu

Roll no :—CH2414036

Regd no :—03670/2023

SIXTH SEMESTER

Under the guidance of

Ms.Ipsita Pallai

(lecturer)

DECLARATION

I do here by declare that the work presented in this project as " Effect Of Salt Stress On Seed Germination Of *Brassica nigra*" Carried out by RUPALI SAHU, Roll no. CH2414036 is an original work done submitted by me in the partial fulfillment for degree of under graduate in science in Botany, Govt. Science college, Chatrapur under Berhampur University. This is an original work done by me under the guidance and supervision of Ms. Ipsita Palei, Lecture of Department of Botany, Govt. Science college Chatrapur, Pin-761020

Further, I declare that it has not been submitted or published, so far, partially or fully for the degree of B.Sc. or any other degree of any college or institute.

Chatrapur

Date: 26/03/2026

Rupali Sahu
Signature

**Survey of plant diversity in the nearby area of
Tampara Lake**

DISSERTATION SUBMITTED FOR THE PARTIAL FULFILMENT
OF THE BACHELOR DEGREE IN BOTANY (SESSION 2023–
2026)

BY

S RISHIKESH

Exam Roll No.- CH2414037

Class Roll No.- BS(B)-23-144

Registration No.- 03671/2023

UNDER THE GUIDANCE

OF

DR. (MRS) S.S.SARDAR

LECTURER

DEPARTEMENT OF BOTANY



GOVERNMENT SCIENCE COLLEGE, CHATRAPUR

Odisha -761020

DECLARAION

I hereby declare that the project entitled

Survey of plant diversity in the nearby area of Tampara Lake.

has been carried out by me under the supervision and guidance of Dr. Pranati Nayak (HOD) and Dr. (Mrs.) S. S. Sardar, Assistant Professor (PG & UG), Department of Botany, Government Science College, Chatrapur.

To the best of my knowledge and belief, this project work is original and has not been submitted elsewhere for the award of any degree, diploma, or other academic qualification.

Place: Chatrapur

Date:

S. P. Rishi Kesh
Signature

"ASSESSMENT OF HYDROPHYTIC
PLANT DIVERSITY :
ANGIOSPERMS IN TAMPARA LAKE"

**DISSERTATION SUBMITTED FOR
THE PARTIAL FULFILMENT OF THE BACHELOR DEGREE
IN BOTANY (SESSION 2023-2026)**

BY

S DEEPA REDDY

EXAM ROLL NO :- CH2414038

CLASS ROLL NO :- BS(B)-23-168

REGISTRATION NO :- 03673/2023

**UNDER THE GUIDANCE
OF
Miss. ANKITA PATNAIK
GUEST FACULTY
DEPARTMENT OF BOTANY**



**GOVT. SCIENCE COLLEGE, CHATRAPUR
ODISHA -761020**

DECLARATION

I hereby declare that the project report entitled " Assessment of Hydrophytic Plant Diversity: Angiosperms in Tampara lake" being submitted by me to Government Science College, Chatrapur for the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science (Botany) is an original and authentic research work conducted by myself under the supervision of Miss Ankita Pattnaik, Guest Faculty in Botany, Department of Botany, Government Science College, Chatrapur. No part of this work or in full form has been submitted to any other institute for a similar Degree or Diploma. The assistance and help received during the course of this investigation have been duly acknowledged.

S. Deepa Reddy
S Deepa Reddy
Roll no- CH2414038
Registration no- 03673/2023

A project report on
***Catharanthus roseus* (L.) G. Don:**
A Comprehensive Review

Submitted for the Partial fulfillment of the degree in BSc in Botany

Submitted By: -

Smruti Kumari Behera

BSc Final Year 6th Semester

Exam Roll No. - CH2414039

Supervised By: -

Dr. Pranati Nayak

Asst. Professor of Botany



Department of Botany

Govt. Science College, Chatrapur, Ganjam

March 2026

DECLARATION

I hereby declare that the project report entitled "*Catharanthus roseus* (L.) G. Don: A **Comprehensive Review**" being submitted by me to Government Science College, Chatrapur for the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science (Botany) is an original and authentic research work conducted by me under the supervision of Dr. Pranati Nayak, Asst. Prof., Department of Botany, Government Science College, Chatrapur. No part of this work or in full form has been submitted to any other institute for a similar Degree or Diploma. The assistance and help received during the course of this investigation have been duly acknowledged.

Ms. Smruti Kumari Behera

Smruti Kumari Behera

Roll no. CH2414039
Registration no. 03689/23

BERHAMPUR UNIVERSITY



GOVERNMENT SCIENCE COLLEGE, CHATRAPUR
2023-2026

U.G DEPARTMENT OF BOTANY
6TH SEMESTER PROJECT SUBMITTED

ON

TOPIC:- HYDROPONIC
The Watercultur System
(Fenugreek Plant)

SUBMITTED By

NAME: SNEHA SAHU

ROLL NO:BS(B)23-193

EXAM ROLL NO :CH2414040

REGISTRATION NO:03691/2023

UNDER THE GUADANCE OF

Miss Ankita Pattnaik , faculty in Botany

&

Dr.Pranati Nayak

(Assistant Professor & H.O.D , Department of Botany)

DECLARATION

I hereby declare that the project report entitled "Hydroponics:- The Water Culture Hydroponic System" being submitted by me to Government Science College, Chatrapur for the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science (Botany) is an original and authentic research work conducted by myself under the supervision of Miss Ankita Pattnaik, Guest Faculty, in Botany, Department of Botany, Government Science College, Chatrapur. No part of this work or in full form has been submitted to any other institute for a similar Degree or Diploma. The assistance and help received during the course of this investigation have been duly acknowledged.

Sneha Sahu

Miss Sneha Sahu

Roll no. CH2414040

Registration no. 03691/2023

A project report on

Rooting Response of *Duranta erecta* L. Stem Cuttings to Different Concentrations of IBA

Submitted for the Partial fulfillment of the degree in BSc in Botany

Submitted By: -

Soumya Prasad Tripathy

BSc Final Year 6th Semester

Exam Roll No. - CH2414041

Supervised By: -

Dr. Pranati Nayak

Asst. Professor of Botany



Department of Botany

Govt. Science College, Chatrapur, Ganjam

March 2026

DECLARATION

I hereby declare that the project report entitled "Rooting Response of *Duranta erecta* L. Stem Cuttings to Different Concentrations of IBA" being submitted by me to Government Science College, Chatrapur for the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science (Botany) is an original and authentic research work conducted by myself under the supervision of Dr. Pranati Nayak, Asst. Prof., Department of Botany, Government Science College, Chatrapur. No part of this work or in full form has been submitted to any other institute for a similar Degree or Diploma. The assistance and help received during the course of this investigation have been duly acknowledged.

Soumya Prasad Tripathy
Sri Soumya Prasad Tripathy,
Roll no. CH2414041
Registration no. 03696/2023

PROJECT ON

PROJECT SUBMITTED TO

STUDY OF ETHNOBOTANICAL PLANT

**GOVT DEGREE SCIENCE COLLEGE CHATRAPUR
FOR THE PARTIAL DEVELOPMENT OF DEGREE OF
BACHELOR OF SCIENCE IN BOTANY**



**SOUMYA SAHU, 6th SEMESTER,
ROLLNO-BS(B)-23-172
EXAM ROLL NO-CH2414042**

SUPERVISOR

**MISS ANKITA PATTNAIK
LECTURER IN BOTANY**

DEPARTMENT OF BOTANY

GOVT. SCIENCE COLLEGE, CHATRAPUR

SESSION-2023-26

DECLARATION

I do here by declare that the work presented in this project as "..." Carried out by soumya sahu, Roll no. CH2414042 is an original work done submitted by the partial fulfillment for degree of under graduate in science in Botany, Govt. Science college, Chatrapur under Berhampur University. This is an original work done by me under the guidance and supervision of miss Ankita pattnaik *Lecturer in Botany*, Department of Botany, Govt. Science college Chatrapur, Pin-761020.

Further, I declare that it has not been submitted or published, so far, partially or fully for the degree of B.Sc. or any other degree of any college or institute.

Soumya Sahu.

Soumya sahu

Exam roll

no: CH2414042

Regdno: 03697/2023

BERHAMPUR UNIVERSITY



ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର

DEPARTMENT OF BOTANY

**EFFECT OF HEAVY METAL TREATMENT ON
MORPHOLOGICAL, PHYSIOLOGICAL AND ANATOMICAL
CHARACTERISTICS OF CHICKPEA (CICER ARIETINUM L.)
PLANT IN HYDROPONIC CULTURE**

**SUBMITTED BY
SRUTI LENKA**

6TH SEMESTER ROLL,NO-B5B 23-126
EXAM ROLL NO-CH-2414044

**SUPERVISOR
LECTURER IN BOTANY
Dr.(MRS) S. S. SARDAR
DEPARTMENT OF BOTANY**

DECLARATION

I hereby declare that the project entitled

“Effect of Heavy Metal Treatment on Morphological, Physiological and Anatomical Characteristics of Chickpea (*Cicer arietinum* L.) Plant in Hydroponic Culture”

has been carried out by me under the supervision and guidance of **Dr. Pranati Nayak (HOD) and Dr. (Mrs.) S. S. Sardar, Assistant Professor (PG & UG), Department of Botany, Government Science College, Chatrapur.**

To the best of my knowledge and belief, this project work is original and has not been submitted elsewhere for the award of any degree, diploma, or other academic qualification.

Place: Chatrapur

Sreuti Lenka.
Signature :

Date:

**ROOTING RESPONSE OF HIBISCUS ROSA-SINENSIS L. STEM CUTTINGS
TO DIFFERENT CONCENTRATION OF IBA**

Submitted For The Partial Fulfillment of The Degree in Bsc in Botany

SUBMITTED BY

SUBHAM BARIK

Exam Roll No.- CH2414045

Class Roll No.- BS(B)-23-146

Registration No.- 03704/2023

UNDER THE GUIDANCE

OF

DR. Pranati Nayak

ASST. Professor



DEPARTEMENT OF BOTANY

GOVT. SCIENCE COLLEGE, CHATRAPUR

Odisha -761020

DECLARATION

I hereby declare that the project report entitled "**Rooting Response of *Hibiscus rosa-sinensis* L. Stem Cuttings to Different Concentrations of IBA**" being submitted by me to Government Science College, Chatrapur for the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science (Botany) is an original and authentic research work conducted by myself under the supervision of Dr. Pranati Nayak, Asst. Prof., Department of Botany, Government Science College, Chatrapur. No part of this work or in full form has been submitted to any other institute for a similar Degree or Diploma. The assistance and help received during the course of this investigation have been duly acknowledged.

Sri Subham Barik

Sri Subham Barik

Roll no. CH2414045

Registration no. 03704/2023

PROJECT ON
TRADITIONAL PLANT-BASED REMEDIES:
AN ETHNOBOTANICAL STUDY



PROJECT SUBMITTED TO
GOVT DEGREE SCIENCE COLLEGE CHATRAPUR
FOR THE PARTIAL DEVELOPMENT OF DEGREE OF
BACHELOR OF SCIENCE IN BOTANY

USHA RANI MAHARANA
6th SEMESTER, ROLL NO-BS(B)-23-79
EXAM ROLL NO-CH2414046

SUPERVISOR
IPSITA PALAI

LECTURER IN BOTANY
DEPARTMENT OF BOTANY
GOVT. SCIENCE COLLEGE, CHATRAPUR
SESSION-2023-26

DECLARATION

I do here by declare that the work presented in this project as ".." Carried out by Usha Rani maharana, Roll no. CH2414046 is an original work done submitted by the partial fulfillment for degree of under graduate in science in Botany, Govt. Science college, Chatrapur under Berhampur University. This is an original work done by me under the guidance and supervision of IPSITA PALAI, Lecturer, Department of Botany, Govt. Science college Chatrapur, Pin-761020.

Further, I declare that it has not been submitted or published, so far, partially or fully for the degree of B.Sc. or any other degree of any college or institute.

Usha Rani maharana
Usha Rani maharana
Exam roll no: CH2414046
Regd no: 03721/2023