

AN EXTENSIVE STUDY ON BATTERIES AND COMPARATIVE ANALYSIS OF IT'S  
TYPES

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

By Name- **Abhinandana Nahak**

Class Roll.No-BS(P)-23-046

Exam Roll.No-CH2414047

Reg. No. -03562/2023



DEPARTMENT OF CHEMISTRY GOVERNMENT SCIENCE  
COLLEGE, CHHATRAPUR, ODISHA



## Declaration Of student

I hereby declare that the project work presented in this report has been carried by us and this project has not been carried out early in this institute and the university.

Name- ABHINANDANA NAHAK

Exam roll number- CH2414047

Registration number -03562/2023

Signature - *Abhinandana Nahak*

**MATERIALS CORROSION AND PROJECTION BY ICCP METHODE: FOR SUSTAINABLE FUTURE**

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

By Name- AJIT KUMAR SETHY

Class Roll.No-BS(P)-23-173

Exam Roll.No-CH2414048



DEPARTMENT OF CHEMISTRY GOVERNMENT SCIENCE COLLEGE, CHHATRPUR,  
ODISHA



## Declaration Of student

I hereby declare that the project work presented in this report has been carried by us and this project has not been carried out early in this institute and the university.

Name- AJIT KUMAR SETHY

Exam roll number- CH2414048

Registration number -03565/2023

Signature - Ajit Kumar SETHY

★ **COSMIC ORIGIN & SPECTRAL IDENTIFICATION OF**  
**ELEMENTS IN STARS: A STUDY USING THE SUN** ★

A dissertation submitted By

**ARCHITA NAYAK**

Roll no -CH2414049

Regd. no – 03572/2023

Government Science College, Chatrapur, Ganjam



For the evaluation of paper DSE-IV of semester VI In partial fulfilment for the award of the

Degree Of

Bachelor of science In Chemistry

Berhampur University, Bhanja Bihar, Berhampur



## DECLARATION OF STUDENT

I hereby declare that the project work presented in this report has been carried by me and this project has not been carried out earlier in this institute and the university.

Name – Archita Nayak

Exam Roll number – CH2414049

Registration Number – 03572/2023

Full Signature Of The Student - *Archita Nayak*

# RECYCLING AND REUSING OF USED LITHIUM-ION BATTERIES

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

By Name- **ASWINI GOUDA**

Class Roll.No-BS(P)-23-041

Exam Roll.No-CH2414050

Reg. No- 03575/2023



DEPARTMENT OF CHEMISTRY GOVERNMENT SCIENCE  
COLLEGE, CHHATRPUR, ODISHA



## DECLARATION

I Aswini Gouda (BS-23-041) the student of the Department of Chemistry do hereby declare that the thesis entitled "**RECYCLING AND REUSING OF USED LITHIUM-ION BATTERIES**" embodies our original research work carried out under the guidance of Dr. Satish Samantray, Assistant professor in Chemistry, 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.

Place: Chatrapur

Date: 28/03/26

Aswini Gouda  
Full Signature

# THE ROLE OF METAL IN THE HUMAN BODY

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

By Name- **Dinesh Kumar Pradhan**

Class Roll.No-BS(P)-23-044

Exam Roll.No-CH2414051



DEPARTMENT OF CHEMISTRY GOVERNMENT SCIENCE  
COLLEGE, CHHATRAPUR, ODISHA



## DECLARATION

I Dinesh Kumar Pradhan (BS-23-046) the student of the Department of Chemistry do hereby declare that the thesis entitled "**The Roles Of Metal In The Human Body**" embodies our original research work carried out under the guidance of Dr. Bishnu Prasad Kar, Assistant professor in Chemistry, Government Science College, Chatarpur. 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.

*Dinesh Kumar Pradhan*  
Full Signature

Place:

Date:

PROJECT ON: "Extraction And Identification Of  
Natural Dyes From Plants"

SUBMITTED BY

G NUTAN

ROLL NO: BSC(P)23-014

EXAM ROLL NO: CH2414052

REGD NO: 03596/2023

STUDENT OF BSc 3<sup>rd</sup> YEAR CHEMISTRY

GOVERNMENT SCIENCE COLLEGE CHATRAPUR



Project Report submitted for the partial fulfillment of  
6<sup>th</sup> Semester +3 Science (Chemistry Honours) Examination, 2026

Bachelor of Science in Chemistry



# Declaration

I hereby declare that the project work presented in this report has been carried out by me and this project has not been carried out earlier in this institute and the university.

*G. Nutan*

Full Signature of Student

Exam Roll Number- CH2414052

Registration number- 03596/2023

**STERILIZATION OF WATER**

**A dissertation submitted**

**By**

**Isharani Nayak**

**Roll no-Ch2414053**

**Regd. no-03602/2023**

**Government Science College, Chatrapur, Ganjam**



**For the evaluation of paper DSE-IV of semester VI  
In partial fulfilment for the award of the degree**

**Of**

**Bachelor of science**

**In Chemistry**

**Berhampur University, Bhanja Bihar, berhampur**



## Declaration

**I hereby declare that the project work presented in this report has been carried out by me and this project has not been carried out earlier in this institute and the university.**

*Isharvani Nayak*

**Full signature of student**

**Exam Roll Number-CH2415053**

**Registration Number-03602/2023**

# **Antioxidant measurement in common herbs**

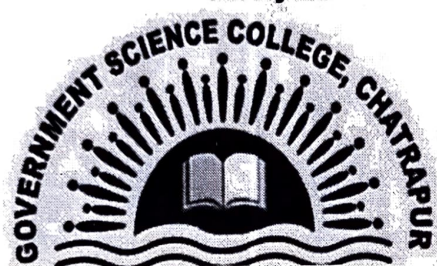
*A dissertation submitted by*

**Mamali Pradhan**

**Roll no.:- CH2414054**

**Regd.no:-03622/2023**

*Government science college, Chatrapur, Ganjam*



For the evaluation of paper DSE IV, Semester VI

*In partially fulfillment for the award of the degree  
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*Bachelor of Science  
in Chemistry*

*Berhampur University, Bhanja Bihar, Berhampur*



## Declaration of student

*I hereby declare that the project work presented in this report has been carried by us and this project has not been carried out earlier in this institute and the university.*

Name:-Mamali Pradhan

Exam Roll number:-CH2414054

Registration number:-03622/2023

Signature:- Mamali Pradhan



**Biodisel**

A dissertation submitted By

Manisha swain

Roll no -Ch2414055

Regd. no – 03625/2023

Government Science College, Chatrapur, Ganjam



For the evaluation of paper DSE-IV of

semester VI In partial fulfilment for the award  
of the degree

Of

Bachelor of science

In Chemistry

Berhampur University, Bhanja Bihar, Berhampur



### Declaration of student

I hereby declare that the project work presented in this report has been carried by us and this Project has not been carried out earlier in this institute and the university.

Name: Manisha swain Exam

roll no: CH2414055

Registration no: 03625/2023

Signature *Manisha swain*

# AIR POLLUTION

Project report submitted for the partial fulfillment of sixth semester +3 science

(Chemistry Honours) Examination, 2026

**BY NAME-N.BIKASH REDDY**  
**CLASS ROLL NO-BS-(p)-23-166**  
**EXAM ROLL NO-CH2414056**  
**ReG No-03632/2023**



DEPARTMENT OF CHEMISTRY GOVERNMENT SCIENCE  
COLLEGE, CHHATRAPUR, ODISHA



## Declaration Of student

I hereby declare that the project work presented in this report has been carried by us and this project has not been carried out early in this institute and the university.

Name- N BIKASH REDDY

Exam roll number- CH2414056

Registration number -03632/2023

Signature - N.BIKASH Reddy

# PROJECT ON :NATURAL SWEETENERS

A dissertation submitted

By

**N JYOTIRMAYEE REDDY**

**Roll no -CH2414057**

**Regd. no - 03634/2023**

Government Science College, Chatrapur, Ganjam



For the evaluation of paper DSE-IV of semester-VI

In partial fulfilment for the award of the degree Of  
Bachelor of science in Chemistry

Berhampur University, Bhanja Bihar, Berhampur



Declaration of student

I hereby declare that the project work presented in this report has been carried by us and this project has not been carried out earlier in this institute and the university.

Name – N Jyotirmayee Reddy

Exam roll number – CH2414057

Registration number – 03634/2023

Signature – *N Jyotirmayee Reddy*

PROJECT ON: "PRODUCTION OF ETHANOL: FROM  
NATURAL TO SYNTHETIC PROCESSES"

SUBMITTED BY

PABAN KUMAR SAHU

ROLL NO: CH2414058

REGD NO: 03641/2023

STUDENT OF B.Sc 3<sup>rd</sup> YEAR CHEMISTRY

GOVERNMENT SCIENCE COLLEGE CHATRAPUR



Project Report submitted for the partial fulfillment of  
6<sup>th</sup> Semester +3 Science (Chemistry Honours) Examination, 2026

Bachelor of Science in Chemistry



# Declaration

I hereby declare that the project work presented in this report has been carried out by me and this project has not been carried out earlier in this institute and the university.

Paban Kumar Sahu

Full signature of student

Roll No: CH241<sup>4058</sup>~~0508~~

Regd No: 03641/2023

# **EXTRACTION OF ESSENETIAL OILS**

**A dissertation submitted by**

**PRATIKHYA BEHERA**

**Roll no -CH2414059**

**Regd. no –03649/2023**

**Government Science College Chatrapur, Ganjam**



**For the evaluation of paper DSE-IV of semester VI  
In partial fulfilment for the award of the degree**

**of**

**Bachelor of Science in Chemistry**

**Berhampur University, Bhanja Bihar, Berhampur**



## DECLARATION OF STUDENT

I hereby declare that the project work presented in this report was carried out by me, and this project has not been previously undertaken at this institute or the university.

**Name – Pratikhya Behera**

**Exam Roll number – CH2414059**

**Registration Number – 03649/2023**

**Full Signature of the student – Pratikhya Behera**

# EXTRACTION OF HERBAL SHAMPOO USING NATURAL INGREDIENTS

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

By Name- SMITA RANI PANDA

Class Roll.No-BS(P)- 23- 011

Exam Roll.No-CH2414060

Regd.No-03688/2023



DEPARTMENT OF CHEMISTRY GOVERNMENT SCIENCE COLLEGE, CHHATRAPUR,  
ODISHA



## Declaration Of student

I hereby declare that the project work presented in this report has been carried by us and this project has not been carried out early in this institute and the university.

Name- SMITA RANI PANDA

Exam roll number- CH2414060

Registration number -03688/2023

Signature - *Smita Rani Panda*

**Topic:- Waste management in textile industry**

**A dissertation submitted**

**by**

**Sunita Behera**

**Roll No. :- CH2414061**

**Reg.No. :- 03713/2023**

**Government Science College, Chatrapur, Ganjam**



**ସରକାରୀ ବିଜ୍ଞାନ ମହାବିଦ୍ୟାଳୟ, ଛତ୍ରପୁର**

**For the evaluation of paper DSE-4 of 6th semester**

**A partial fulfillment for the award of the degree of**

**Bachelor of Science**

**In Chemistry**

**Berhampur University, Bhanja Bihar , Berhampur**



## Declaration Of Student

I hereby declare that the project work presented in this report has been carried by us and this project has not been carried out earlier in this institute and the University .

Name :- Sunita Behera

Exam Roll No.:- CH2414061

Registration No. :- 0371<sup>3</sup>/2023

Signature:- *Sunita Behera*