



VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHAT
VIDYA VIKAS ART'S, COMMERCE & SCIENCE COLLEGE,
SAMUDRAPUR DIST. WARDHA 442305 (M.S.)
(Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.)

R T M Nagpur University Practical Examination Summer-2024

M. Sc. Semester-IV Physics Project List 2023-24

Sr. No.	Name of Student	Title	Project Guide
1	Ku. Arati Sampat Bhajikhaye	Exploring the Structural and Magnetic Properties of Nickel Doped Cobalt Ferrite.	Dr. N. D. Shambharkar
2	Ku. Ashvini Jogendra Choudhari	Photocatalytic Activity in Ferrites.	Dr. K. G. Rewatkar
3	Ku. Kalyani Kailas Telrandhe	Effect of Sintering Temperature on Synthesised Nickel Ferrite- Review.	Mr. S. R. Sarve
4	Ku. Manisha Ramudas Swami	Impact of Sintering Temperature on Cobalt Zinc Ferrite: A Comprehensive Study.	Mr. S. R. Sarve
5	Ku. Monali Balaji Jamunkar	Exploring the Influence of Aluminium Doping on the Structural and Magnetic Characteristics of Ni-Zn Ferrite.	Dr. N. D. Shambharkar
6	Ku. Mrunal Tukaramji Thakare	Exploring the Structural, Magnetic, and Electrical Properties of Nanosized Nickel Ferrite Synthesized via Sol-Gel Method.	Mr. S. R. Sarve
7	Ku. Payal Vijay Deodhe	Exploring the Structural and Magnetic Characteristics of Magnesium Doped Cobalt Ferrite: An Investigative Study.	Dr. N. D. Shambharkar





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8	Ku. Ritika Dattaraj Uchale	Hyperthermia Application of Ferrites.	Dr. K. G. Rewatkar
9	Ku. Sandhya Ramesh Tembhare	Comparative study of Co-precipitation Synthesis Methods for Nickel Ferrite Impact on Structural Electrical and Magnetic Properties.	Mr. S. R. Sarve
10	Ku. Sneha Pundlik Ughade	Impact of Sintering Temperature on Structural and Magnetic Properties of Aluminium-doped Nickel Zinc Ferrite.	Dr. N. D. Shambharkar
11	Ku. Tanushri Prakash Mude	Analyzing the Structural and Electrical Properties of Zinc-Doped Cobalt Ferrite: A Comprehensive Study.	Mr. S. R. Sarve
12	Ku. Vaishnavi Vithobaji Dandare	Exploring the Structural and Magnetic Characteristics of Zinc Magnesium Ferrite with Aluminium Doping.	Dr. N. D. Shambharkar

Date: 16/05/2024

Place: Samudrapur


Mr. S. R. Sarve
HOD, Assist. Professor, Physics


Dr. N. D. Shambharkar
Assist. Professor, Physics


Principal
Dr. K. G. Rewatkar
Principal
Vidya Vikas Art's Commerce
& Science College, Samudrapur
Dist. Wardha 442305

**“COMPARATIVE STUDY OF CO-PRECIPIATION SYNTHESIS METHODS FOR
NICKEL FERRITE IMPACT ON STRUCTURAL, ELECTRICAL AND MAGNETIC
PROPERTIES”**

Project

Master of Science (physics)

To

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur,

By

Miss. Sandhya Ramesh Tembhare

M.Sc Final Year (physics)

Supervision

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce & Science College,

Samudrapur, Dist: Wardha

Place of work



DEPARTMENT OF PHYSICS

Vidya Vikas Art's, Commerce & Science College, Samudrapur

2023-2024

**VIDYA VIKAS ARTS, COMMERCE AND SCIENCE, COLLEGE
SAMUDRAPUR, DIST: WARDHA**

CERIFICATE

This is to certify that **Miss. Sandhya Ramesh Tembhare** has finished all her research work in department of physics, She has completed all the formalities of our research centre. Her project is hereby forwarded to RTMNU University Nagpur for the award of Post Graduate Degree in Physics.

Date:- 12/5/2024

Place:- Samudrapur



Dr. K. G. Rewatkar

Principal

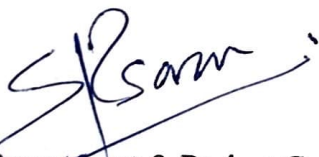
Vidya Vikas Art's Commerce & Science College, Samudrapur
Dist. Wardha - 442 500

Samudrapur, Dist: Wardha

**VIDYA VIKAS ART'S COMMERCE AND SCIENCE COLLEGE,
SAMUDRAPUR**

CERTIFICATE

This is to certify that the work presented in this project entitled "Comparative study of Co-precipitation synthesis methods for Nickel ferrite: impact on Structural, Electrical and Magnetic Properties" is the own work of **Miss. Sandhya Ramesh Tembhare** conducted in the **Department of Physics, Vidya Vikas Art's Commerce and Science College, Samudrapur** under my supervision in the partial fulfillment of the requirement prescribe by RTM Nagpur University, Nagpur for the award of **Post Graduate Degree in physics.**



Head of Department & Project Guide

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Arts, Commerce & Science College

Samudrapur, Dist: Wardha

DECLARATION

I hereby declare that the dissertation entitled “**Comparative Study of Co-precipitation Synthesis Methods for Nickel Ferrite Impact On Structural, Electrical and Magnetic Properties**”, submitted for the degree of Post Graduation in Physics to the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, in the Faculty of Science and Technology at the Centre for Department of Physics, Vidya Vikas College Samudrapur. It has been carried out by me independently under the supervision of Mr. S.R. Sarve Assistant Professor, Department of Physics, Vidya Vikas College Samudrapur.

I also declare that the dissertation has not been submitted to any other University / Institute for the award of any other degree, diploma and certificate.

Date:- 12/5/2024

Place:- Samudrapur


Miss. Sandhya Ramesh Tembhare

Student

M.Sc Final Year (Physics)

ACKNOWLEDGMENT

I respect and thanks **Mr. S.R. Sarve** for providing me an opportunity to do the project work and giving us all support and guidance which made me complete my project work. I am extremely thankful to him although he had busy schedule managing the corporate affairs to giving me necessary information for developing a good project work.

I am also thankful to **Miss. Pranali G. Warghane** lecturer in department of physics, Vidya Vikas Art's, commerce and Science College Samudrapur for encouraging though out the project work.

At last but not the least to my PARENTS and friends who helped me a lot in finalizing this project within the limited time frame.

Date:- 12/5/2024

Place:- Samudrapur


Miss. Sandhya R. Tembhare

M.Sc. Final (Physics)

Vidya Vikas Art's Commerce &

Science College, Samudrapur

**“EXPLORING THE STRUCTURAL, MAGNETIC AND ELECTRICAL PROPERTIES
OF NANOSIZED NICKEL FERRITE SYNTHESIZED VIA SOL-GEL METHOD ”**

Project

Master of Science (Physics)

TO

Rashtrasant Tukdoji Maharaj Nagpur University , Nagpur

By

Miss. Mrunal Tukaramji Thakare

M.Sc Final Year (Physics)

Supervision

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's Commerce & Science College,

Samudrapur , Dist Wardha

Place of work



DEPARTMENT OF PHYSICS

2023-2024

Vidya Vikas Art's Commerce and Science College, Samudrapur

2023-2024

**VIDYA VIKAS ART'S, COMMERCE AND SCIENCE COLLEGE,
SAMUDRAPUR , DIST: WARDHA**

CERTIFICATE

This is to certify that **Miss. Mrunal Tukaramji Thakare** has finished all her research work in department of physics. She has completed all the formalities of our research centre. Her project is hereby forwarded to RTM Nagpur University Nagpur for the award of **Post Graduate Degree in Physics.**

Date:- 03/05/2024

Place :- Samudrapur



Dr. K.G. Rewatkar


Principal
Principal
Vidya Vikas Art's Commerce
& Science College, Samudrapur
Vidya Vikas College, Samudrapur
Dist. Wardha 442305

VIDYA VIKAS ART'S, COMMERCE AND SCIENCE COLLEGE

SAMUDRAPUR, DIST: WARDHA

CERTIFICATE

This is to certify that the work presented in this project entitled **“Exploring the Structural, Magnetic and Electrical Properties of Nanosized Nickel Ferrite Synthesized via Sol-Gel Method”** is own work of **Miss. Mrunal Tukaramji Thakare** conducted in the **Department of Physics, Vidya Vikas Art's, Commerce and Science College, Samudrapur** under my supervision in the partial fulfilment of the requirement prescribe by **RTM Nagpur University, Nagpur** for the award of **Post Graduate Degree in Physics**.


03/05/2024

Head of the Department of Physics & Project Guide

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Arts, Commerce and Science College,

Samudrapur , Dist :Wardha

DECLARATION

I hereby declare that the dissertation entitled “Exploring the Structural, Magnetic and Electrical Properties of Nanosized Nickel Ferrite Synthesized via Sol-Gel Method” submitted for the degree of Post Graduation in Physics to the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, in the Faculty of Science and technology at the Centre for Department of Physics, Vidya Vikas College Samudrapur . It has been carried out by me independently under the supervision of Mr. S. R. Sarve Assistant Professor, Department of Physics, Vidya Vikas College Samudrapur,

I also declare that the dissertation has not been submitted to any other University / Institute for the award of any degree, diploma and certificate.

Date :- 03/05/2024

Place :-Samudrapur



Miss. Mrunal Tukaramji Thakare

Student

M.Sc Final Year (Physics)

ACKNOWLEDGMENT

It is indeed my pleasure to thank my project guide **Mr. S. R. Sarve** Assistant Professor in physics, Vidya Vikas Art's Commerce & Science College, Samudrapur & express my deep sense of gratitude for his valuable guidance, supervision and unlimited encouragement throughout the project work.

I wish to thank the Principal **Dr. K. G. Rewatkar**, Vidya Vikas Art's, Commerce & Science College, Samudrapur for permitting me use all the facilities available in the institution for my project work.

I am also thankful to **Dr. N. D. Shambharkar**, **Miss. Pranali Warghane** for their support and kind cooperation.

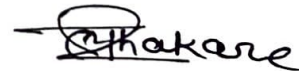
My classmate have been of great help to me the project work. My idea were shaped and refined progressively through my discussion with them from time to time. I greatly value their friendship and I deeply appreciate their belief in me. I cannot miss to thank them all.

Once again extending heartfelt thanks to all those who have been a beacon of light toward the completion of this project.

At last but not the least to my **PARENTS** for providing me all financial and moral support.

Date :- 03/05/2024

Place :- Samudrapur



Miss. Mrunal Tukaramji Thakare

M.Sc Final year (Physics)

Vidya Vikas Art's ,Commerce & Science
College, Samudrapur

“Effect of sintering temperature synthesized Nickel ferrite-Review”

Project

Master of Science (Physics)

To

Rashtrasant Tukdoij Maharaj Nagpur University, Nagpur,

By

Miss. Kalyani Kailas Telrandhe

M.Sc. Final Year (Physics)

Supervision

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and Science College

Samudrapur Dist. Wardha

Place of work



DEPARTMENT OF PHYSICS

Vidya Vikas Art's, Commerce and Science College Samudrapur

2023-2024

VIDYA VIKAS ART'S COMMERCE AND SCIENCE, COLLEGE

SAMUDRAPUR DIST. WARDHA

CERIFICATE

This is to certify that **Miss. Kalyani Kailas Telrandhe** has finished all her research work in department of physics. She has completed all the formalities of our research Centre. Her project is hereby forwarded to RTM Nagpur University. Nagpur for the award of **Post Graduate Degree in Physics.**

Date:

Place: Samudrapur



Dr. K.G. Rewatkar

Principal

Vidya Vikas Art's Commerce

& Science College, Samudrapur

Vidya Vikas Art's, Commerce and Science College
Dist. Wardha 442305

Samudrapur Dist. Wardha

**VIDYA VIKAS ARTS' COMMERCE AND SCIENCE, COLLEGE
SAMUDRAPUR DIST. WARADHA**

CERIFICATE

This is to certify that the work presented in this project entitled "Effect of Sintering Temperature, Synthesized Nickel ferrite – Review" is the own work of **Miss. Kalyani Kailas Telrandhe** conducted in the **Department of Physics, Vidya Vikas Art's, Commerce and Science College, Samudrapur** under my supervision in the partial fulfillment of the requirement prescribe by **RTM Nagpur University, Nagpur** for the award of **Post Graduate Degree in Physics.**



Head of the Department of Physics & Project Guide

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and

Science College,

Samudrapur, Dist. Wardha

DECLARATION

I hereby declare that the dissertation entitled “**Effect of sintering temperature synthesized Nickel ferrite –Review**”. Submitted for the Degree of Post Graduation in Physics to the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, in the Faculty of Science Technology at the centre for Department of Physics, Vidya Vikas College Samudrapur. It has been carried out by me independently under the supervision of Mr. S. R. Sarve Assistant Professor, Department of Physics, Vidya Vikas Art's, Commerce and Science College Samudrapur, Dist. Wardha

I also declare that the dissertation has not been submitted to any other University or Institute for the award of any degree, diploma and certificate.

Date :

Place : Samudrapur

Kelrandhe

Miss. Kalyani Kailas Telrandhe

Student

M.Sc. Final Year (Physics)

ACKNOWLEDGMENT

It is indeed my pleasure to thank my project guide, **Mr. S. R. Sarve**, for providing me an opportunity to do the project work and giving us all support and guidance that help me to complete my project work. I am extremely thankful to him, although he had busy schedule managing the corporate affairs, to giving me necessary information for developing a good project.

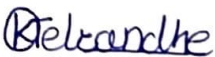
I am also thankful to **Dr. N. D. Shambharkar**, Assistant. Professor in Department of physics, and **Miss. Pranali G. Warghane**, lecturer in Department of physics, at Vidya Vikas Art's, Commerce and Science College Samudrapur for encouragement throughout the project work.

My Classmate have been of great help to me with the project work. My ideas were shaped and refined progressively through my discussion with them from time to time. I cannot forget to thank them all.

Once again, I extending heartfelt thanks to all those who have been a beacon of light towards the completion of this project.

At last, but not least to my **PARENTS** for providing me all financial and moral support.

Date:
Place: Samudrapur


Miss Kalyani Kailas Telradhe
M.Sc. Final Year (Physics)
Vidya Vikas Art's, Commerce and
Science College, Samudrapur

**“IMPACT OF SINTERING TEMPERATURE ON COBALT-ZINC
FERRITE: A COMPREHENSIVE STUDY”**

Project

Master of Science (Physics)

To

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

By

Miss. Manisha Ramudas Swami

M.Sc. Final Year (Physics)

Supervision

Mr. S.R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and Science College,

Samudrapur, Dist: Wardha

Place of work



DEPARTMENT OF PHYSICS

Vidya Vikas Art's, Commerce and Science College, Samudrapur

2023-2024

**VIDYA VIKAS ART'S, COMMERCE AND SCIENCE COLLEGE,
SAMUDRAPUR, DIST: WARDHA**

CERTIFICATE

This is to certify that **Miss. Manisha Ramudas Swami** has finished all her research work in department of physics. She has completed all the formalities of our research centre. Her project is hereby forwarded to RTM Nagpur University. Nagpur for the award of **Post Graduate Degree in Physics.**

Date: 03/05/2024

Place: Samudrapur



Dr. K. G. Rewatkar

Principal

Vidya Vikas Art's Commerce
Vidya Vikas College, Samudrapur
Dist. Wardha 442305

**VIDYA VIKAS ART'S, COMMERCE AND SCIENCE COLLEGE
SAMUDRAPUR, DIST: WARDHA**

CERTIFICATE

This is to certify that the work presented in this project entitled "Impact of Sintering Temperature on Cobalt-Zinc Ferrite: A Comprehensive Study" is the own work of **Miss. Manisha Ramudas Swami** conducted in the **Department of Physics, Vidya Vikas Art's, Commerce and Science College, Samudrapur** under my supervision in the partial fulfilment of the requirement prescribe by RTM Nagpur University, Nagpur for the award of **Post Graduate Degree in Physics**.


03/05/2024

Head of the Department of Physics & Project Guide

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and Science College,

Samudrapur, Dist: Wardha

DECLARATION

I hereby declare that the dissertation entitled "Impact of Sintering Temperature on Cobalt-Zinc Ferrite: A Comprehensive Study" submitted for the Degree of Post Graduation in Physics to the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, in the Faculty of Science and Technology at the centre for Department of Physics, Vidya Vikas College Samudrapur. It has been carried out by me independently under the supervision of Mr. S.R. Sarve Assistant Professor, Department of physics, Vidya Vikas College Samudrapur.

I also declare that the dissertation has not been submitted to any other University/ Institute for the award of any other degree, diploma and certificate.

Date: 03/05/2024

Place: Samudrapur



Miss. Manisha Ramudas Swami

Student

M.Sc. Final Year (Physics)

ACKNOWLEDGMENT

It is indeed my pleasure to thank my project guide, **Mr. S. R. Sarve**, for providing me an opportunity to do the project work and giving us all support and guidance that help me to complete my project work. I am extremely thankful to him, although he had busy schedule managing the corporate affairs, to giving me necessary information for developing a good project.

I am also thankful to **Dr. N.D. Shambharkar**, Assistant. Professor in Department of physics, and **Miss. Pranali G. Warghane**, lecturer in Department of physics, at Vidya Vikas Art's, Commerce and Science College Samudrapur for encouragement throughout the project work.

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Once again, I extending heartfelt thanks to all those who have been a beacon of light towards the completion of this project.

At last, but not least to my **PARENTS** for providing me all financial and moral support.

Date: 03/05/2024

Place: Samudrapur



Miss. Manisha Ramudas Swami

M.Sc. Final Year (Physics)

Vidya Vikas Art's, Commerce and

Science College, Samudrapur

**“ANALYZING THE STRUCTURAL AND ELECTRIC PROPERTIES OF ZINC-DOPED
COBALT FERRITE: A COMPREHENSIVE STUDY”**

Project

Master of Science (Physics)

To

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur,

By

Miss. Tanushri Prakash Mude

M.Sc. Final Year (Physics)

Supervision

Mr. S.R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and Science College,

Samudrapur, Dist. Wardha.

Place of work



DEPARTMENT OF PHYSICS

Vikas Vikas Art's Commerce and Science College, Samudrapur

2023-2024

**VIDYA VIKAS ART'S COMMERCE AND SCIENCE, COLLEGE,
SAMUDRAPUR, DIST. WARDHA.**

CERTIFICATE

This is to certify that **Miss. Tanushri Prakash Mude** has finished all her research work in department of physics. She has completed all the formalities of our research Centre. Her project is hereby forwarded to RTM Nagpur University Nagpur for the award of **Post Graduate Degree in Physics.**

Date:- 13/05/2024

Place:- Samudrapur


Dr. K. G. Rewatkar

Principal
Vidya Vikas Commerce
& Science College, Samudrapur
Dist. Wardha, Maharashtra
Vidya Vikas Commerce & Science College, Samudrapur

VIDYA VIKAS ART'S COMMERCE AND SCIENCE COLLEGE

SAMUDRAPUR, DIST. WARDHA

CERTIFICATE

This is to certify that the work presented in this project entitled “**Analyzing the Structural and Electric properties of Zinc-doped Cobalt ferrite: A Comprehensive Study**” is the own work of Miss. **Tanushri Prakash Mude** conducted in the **Department of Physics, Vidya Vikas Art's commerce and Science College, Samudrapur** under my supervision in the partial fulfillment of the requirement prescribe by RTM Nagpur University, Nagpur for the award of **Post Graduate Degree in Physics**.



Head of the Department of Physics & Project Guide

Mr. S. R. Sarve

Assistant Professor

Vidya Vikas Art's, Commerce and Science College,

Samudrapur, Dist. Wardha

DECLARATION

I hereby declare that the dissertation entitled “Analyzing the Structural and Electric properties of Zinc-doped Cobalt ferrite: A Comprehensive Study”. Submitted for the degree of P.G. in physics to the Rashtrasant Tukadoji Maharaj Nagpur University, in the Faculty of Science and Technology at the Centre for Department of Physics Vidya Vikas College Samudrapur. It has been carried out by me independently under the supervision of S.R. Sarve Assistant Professor, Department of Physics, Vidya Vikas College Samudrapur.

I also declare that the dissertation has not been submitted to any other University for Institute for the award of any other degree, diploma and certificate.

Date :- 13/05/2024

Place :- Samudrapur

T. Mude

Miss. Tanushri Prakash Mude

Student,

M.Sc. Final Year (Physics)

ACKNOWLEDGMENT

It is indeed my pleasure to thank my project guide **Mr. S. R. Sarve** lecturer in physics, Vidya Vikas Art's Commerce & Science College, Samudrapur & express my deep sense of gratitude for his valuable guidance, supervision and unlimited encouragement throughout the project work.

I wish thank the Principal **Dr. K. G. Rewatkar**, Vidya Vikas Art's, Commerce & Science College, Samudrapur for permitting me to use all the facilities available in the institution for my project work.

I am also thankful to **Dr. N. D. Shambharkar**, **Miss. Pranali G. Warghane** for their support and kind cooperation.

My classmate have been of great help to me the project work. My idea were shaped and refined progressively through my discussion with them from time to time. I greatly value their friendship and I deeply appreciate their belief in me. I cannot miss to thank them all.

Once again extending heartfelt thanks to all those who have been a beacon of light towards the completion of this project.

At last but not the least to my **PARENTS** for providing me all financial and moral support.

Date:- 13/05/2024

Place:- Samudrapur

Tanushri

Miss. Tanushri Prakash Mude


M.Sc. Final Year (Physics)

Vidya Vikas Art's, Commerce and

Science College, Samudrapur

**VIDYA VIKAS ARTS, COMMERCE AND SCIENCE COLLEGE,
SAMUDRAPUR
M. Sc. (BOTANY) SEMESTER-IV
PROJECT TOPICS
Session: 2023-24**

Sr. No.	Name of Student	Name of Topic	Name of Supervisor
1	Shweta Chaudhari	Cultivation Of Wild Vegetable (<i>Cassia tora L.</i>) through Artificial Lighting	Dr. N. S. Shirbhate
2	Vaishnavi Kowrate	Cultivation of Biodiesel plants in polluted Soil	
3	Shivani Nikore	Ethnobotanical survey of medicinal plants from Samudrapur region	Dr. V. G. Manwatkar
4	Payal Chambhare	Preparation Leaf Protein Concentrate (LPC) from wild and cultivated green foliage	
5	Umeshwari Dahule	Comparative study of Stomatal Index from different plant species	
6	Muskan Pathan	Study of pollen diversity in different honey samples	Dr. S. D. Yeotkar
7	Pragati Yenorkar	Phytochemical Analysis of <i>Vinca rosea</i> and <i>Nerium indica</i>	


 Head of Department
 Prof. N. S. Shirbhate
 Head Dept of Botany
 Vidya Vikas Arts, Commerce
 & Science College Samudrapur
 Dist. Wardha 442305


 Principal
 Vidya Vikas Art's Commerce
 & Science College, Samudrapur
 Dist. Wardha 442305

A PROJECT REPORT

On

“CULTIVATION OF WILD VEGETABLE (*Cassia tora L.*) THROUGH ARTIFICIAL LIGHTING”

Submitted in partial fulfillment of the
DEGREE OF MASTER OF SCIENCE (BOTANY)

In the Faculty of Science

By

MS. SWETA VILAS CHAUDHARI

Under the Supervision of

DR. NAYANA S. SHIRBHATE

Assistant Professor & Head,
Department of Botany,
Vidya Vikas Arts, Commerce and Science
College, Samudrapur Dist. Wardha-442305, India



Department of Botany

Vidya Vikas Arts, Commerce and Science
College, Samudrapur Dist. Wardha-442305, India

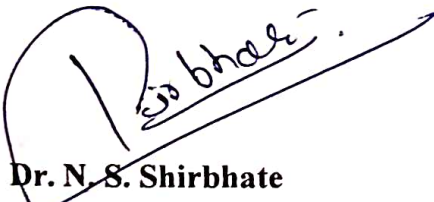
2023-24


CERTIFICATE


This is to clarify that **Ms. Sweta Vilas Chaudhari** is a student of **M. Sc. Botany (Semester-IV)** in the Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

The dissertation in title "**Cultivation of Wild Vegetable (*Cassia tora L.*) through Artificial Lighting**" is submitted to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur in partial fulfillment for the degree of Master of Science in Botany.

Forwarded through:


Dr. N. S. Shirbhate
Assistant Professor & Head
Vidya Vikas Arts,
Comm. & Sci. College,
Samudrapur


Dr. K. G. Rewatkar
Principal
Principal
Vidya Vikas Art's Commerce
& Science College, Samudrapur
Vidya Vikas Arts
Dist. Wardha 442305
Comm. & Sci. College,
Samudrapur


24/05/16

A PROJECT REPORT

On

“PREPERATION OF LEAF PROTEIN CONCENTRATE FROM WILD AND CULTIVATED GREEN FOLIAGES”

Submitted in partial fulfillment of the
DEGREE OF MASTER OF SCIENCE (BOTANY)
In the Faculty of Science and Technology

By

MISS. PAYAL AMBADAS CHAMBHARE

Under the Supervision of

Dr. VIJAY G. MANWATKAR

Assistant Professor,
Department of Botany,
Vidya Vikas Arts, Commerce and Science
College, Samudrapur Dist. Wardha-442305, India



Department of Botany

Vidya Vikas Arts, Commerce and Science
College, Samudrapur Dist. Wardha-442305, India


2023-24

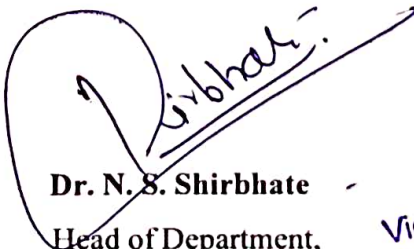
CERTIFICATE


This is to clarify that **Payal Ambadas Chambhare** is a student of **M. Sc. Botany** (Semester-IV) in the Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

The dissertation entitled **“Preperationof Leaf Protein Concentrate from Wild and Green foliage”** is submitted to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur in partial fulfillment for the degree of Master of Science in Botany.

Forwarded through:


Dr. V. G. Manwatkar
Assistant Professor,
Vidya Vikas Arts,
Comm. & Sci. College
Samudrapur


Dr. N. S. Shirbhate
Head of Department,
Vidya Vikas Arts,
Comm. & Sci. College
Samudrapur


Principal
Dr. K. R. Rewalkar
Vidya Vikas Arts, Commerce
& Science College, Samudrapur
Dist. Wardha 442305
Vidya Vikas Arts,
Comm. & Sci. College
Samudrapur


24/5/16

A PROJECT REPORT

On

“ETHANOBOTANICAL SURVEY OF MEDICINAL PLANTS PRESENT IN SAMUDRAPUR REGION”

Submitted in partial fulfillment of the
DEGREE OF MASTER OF SCIENCE (BOTANY)

In the Faculty of Science

By

MISS. SHIVANI GAJANAN NIKORE

Under the Supervision of

DR. SWATI D. YEOTKAR

Assistant Professor,
Department of Botany,
Vidya Vikas Arts, Commerce and Science
College, Samudrapur Dist. Wardha-442305, India



Department of Botany

Vidya Vikas Art,s Commerce and Science
College, Samudrapur Dist. Wardha-442305, India

2023-24


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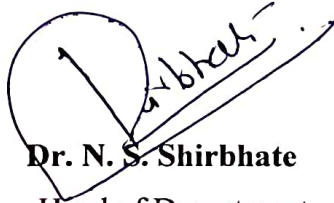
CERTIFICATE


This is to clarify that **Miss. Shivani Gajanan Nikore** is a student of **M. Sc. Botany** (Semester-IV) in the Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

The dissertation in title “**Ethanobotanical survey of medicinal plants present in samudrapur region**” is submitted to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur in partial fulfillment for the degree of Master of Science in Botany.

Forwarded through:


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Samudrapur


18/5/24

A PROJECT REPORT

On

**“CULTIVATION OF BIODIESEL PLANTS IN
POLLUTED SOIL”**

Submitted in partial fulfillment of the
DEGREE OF MASTER OF SCIENCE (BOTANY)

In the Faculty of Science

By

MS. VAISHNAVI PRABHAKAR KOWRATE

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Department of Botany

Vidya Vikas Arts, Commerce and Science
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2023-24

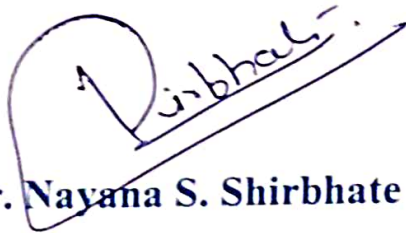
VIDYA VIKAS ARTS, COMMERCE AND SCIENCE COLLEGE
DEPARTMENT OF BOTANY
SAMUDRAPUR DIST. WARDHA-442305
Phone: (07151) 225560, 9096943636 Fax: (07151) 225560

Date: 08/05/2024

CERTIFICATE

It is certified that I have supervised the work of Ms. Vaishnavi Prabhakar Kowrate on "Cultivation of Biodiesel Plants in Polluted Soil" for the degree of "MASTER OF SCIENCE" in the faculty of Science, Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha. I find that the work is comprehensive and complete in all respect and ready for the submission to the University.

Supervisor:



Dr. Nayana S. Shirbhate

Assistant Professor & Head,

Department of Botany,

Vidya Vikas Arts, Commerce and Science College,

Samudrapur Dist. Wardha-442305, India

A PROJECT REPORT

on

“COMPARATIVE STUDY OF STOMATAL INDEX FROM DIFFERENT PLANT SPECIES”

Submitted in particular fulfillment of the
DEGREE OF MASTER OF SCIENCE
(BOTANY)

In the Faculty of science

By,

MISS. UMESHWARI KAWADUJI DAHULE

Under the Supervision of

Dr. VIJAY G. MANWATKAR

Assistant Professor,

Department of Botany

Vidya Vikas Arts, Commerce and Science College,

Samudrapur, Dist. Wardha-442305, India



Department of Botany

Vidya Vikas Arts, Commerce and Science College,

Samudrapur, Dist. Wardha-442305, India

2023-24

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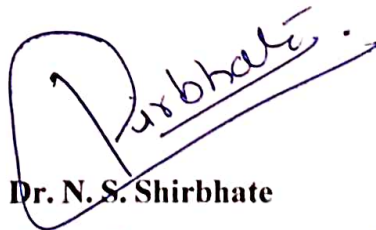
This is to clarify that **Umeshwari Kawaduji Dahule** is a student of **M. Sc. Botany (Semester-IV)** in the Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur Dist. Wardha affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

The dissertation entitled "**Comparative study of stomatal index from different plant species**" is submitted to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur in partial fulfillment for the degree of Master of Science in Botany.


Forwarded through:



Dr. V. G. Manwatkar
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(NAAC Accredited B++ 2022)

SEM IV

List of M.Sc. Final Year Zoology Project Topics with Respective Supervisors.

Date:- 16/10/2023

Sr. No.	Name of Students	Name of Topic	Name of Supervisor
1	Achal Watkar	Chemical Effects on Fish Development	Dr. Manohar Ambatkar
2	Ashwini Dhokpande	Analysis of Glucose level in Blood	Dr. Manohar Ambatkar
3	Chanda Warbhe	Changes in Haematological Parameterin Females During Pregnancy.	Dr. Archana Bhende
4	Diksha Dange	Bacterial Growth Observation on theFruits	Dr. Archana Bhende
5	Komal Yelekar	Bacteriological Quality of Street Food (Panipuri).	Dr. Archana Bhende
6	Krunali Telrandhe	Diversity of Spiders Fauna in Samudrapur Taluka	Dr. Manohar Ambatkar
7	Nandini Thaware	Diversity of Birds in Hinganghat Tahsil.	Dr. Manohar Ambatkar
8	Neha Changale	Study of Different cholesterol level in Children	Dr. Archana Bhende
9	Pallavi Arade	Diversity of Butterfly Fauna in Samudrapur Tahsil.	Dr. Archana Bhende
10	Roshan Nannaware	Diversity of Moths Fauna in Samudrapur Tahsil.	Dr. Manohar Ambatkar
11	Shital Kalwade	Study of Zooplanktons in HinganghatTahsil.	Dr. Manohar Ambatkar
12	Shreya Thakur	Survey of Haemoglobin	Dr. Manohar Ambatkar
13	Shubhangi Navghare	Study of Effects of Fertilizers on Human Health	Dr. Archana Bhende
14	Tejal Kawale	Survey of Conjunctivitis Eye fluInfection	Dr. Archana Bhende
15	Tina Wandhare	Study of Bluetooth Earbuds effect on Human Health.	Dr. Manohar Ambatkar
16	Vaishnavi Kalwade	Diversity of Fishes in Hinganghat Tahsil.	Dr. Manohar Ambatkar

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(Affiliated To RTM Nagpur University, Nagpur)



M.Sc. Project

A STUDY ON FIBROADENOMA OF THE BREAST

Submitted by

Priyanka Vinayakrao Satone

M.Sc. Semester IV

For the award of
Master of Science in Zoology

POST GRADUATE DEPARTMENT OF ZOOLOGY
VIDYA VIKAS COLLEGE, SAMUDRAPUR
(Academic Year 2022 – 2023)

A STUDY ON FIBROADENOMA OF THE BREAST

Project report submitted

in the partial fulfilment of the Degree of

Master of Science in Zoology

in faculty of Science

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

Submitted by

Priyanka Vinayakrao Satone

M.Sc. IV Semester (Zoology)

2022-2023

Supervisor

Archana M. Bhende
Dr. Archana M. Bhende

M.Sc., B.Ed., M.Phil., Ph.D.

Department of Zoology

Vidya Vikas College, Samudrapur

Dist. Wardha, Maharashtra

VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHAT
VIDYA VIKAS COLLEGE, SAMUDRAPUR
POST GRADUATE DEPARTMENT OF ZOOLOGY
(Academic Year 2022 - 2023)

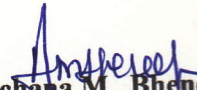


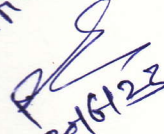
CERTIFICATE

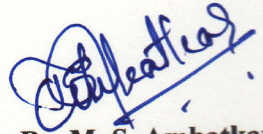
This is to certify that Mr./Ms./Mrs. Priyanka Vinayakrao Satone has successfully completed the M.Sc. Semester IV Project titled A study on fibroadenoma of the breast in the partial fulfillment of the Degree of Master of Science in Zoology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

This project report is the record of authentic work carried out by him/her under my supervision.

Date: 23/06/2023
Place: Samudrapur


Dr. Archana M. Bhende
Assistant Professor
Department of Zoology
Vidya Vikas College, Samudrapur

verified

30/6/23


Dr. M. S. Ambatkar
Head of the Department
Department of Zoology
Vidya Vikas Arts, Commerce
Science College, Samudrapur
Dist. Wardha

Declaration

I, Priyanka Vinayakrao Satone declare that the project report is based on my own work Carried out during the course of M.Sc. in Zoology under the supervision of Dr. Archana M. Bhende. I certify that the work contained in the report is original and has been done by me under the general supervision of my supervisor. The work has not been submitted to any other Institution for any other degree/diploma/certificate in this university or any other University of India or abroad.


(Signature)

Priyanka Vinayakrao Satone

Roll No. 494291

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Abstract

The aim of this study to spread awareness from Fibroadenoma of the Breast in females. Day by day increase the rate of Fibroadenoma. It is usually occur under the influence of hormonal changes that the girl undergo at the time of puberty and it happen due to overgrowth of glandular tissue in the breast. Some patients or females want to removal Fibroadenoma because of social reason and fear of malignancy. In this survey study, 21 cases of fibroadenomas were between the ages 21 to 30 yrs.

Project

Submitted To

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

ON TOPIC

COMPARATIVE STUDY OF EFFECT OF NEWLY SYNTHESIZED
ORGANIC FERTILIZERS AND UREA ON GROWTH OF *CAJANUS*
CAJAN (TUR): AN ENVIRONMENTAL CONSERVATION APPROACH



For the partial fulfilment of the requirement degree of

MASTER OF SCIENCE

In the faculty of science (CHEMISTRY)

By Mr. Ashish Dada Zade

M. Sc. (Sem IV Student)

Under the guidance of

Dr. M. N. Narule

M.Sc, M.Ed, MBA (HR), Ph.D (Chem), Ph.D (Mang)

POST GRADUATE DEPARTMENT OF CHEMISTRY

VIDYA VIKAS ARTS, COMMERCE AND SCIENCE COLLEGE

SAMUDRAPUR, WARDHA

Session 2023 - 2024

CERTIFICATE

This is to certify that the work reported in the M.Sc. Project entitled "Comparative study of effect of newly synthesized organic fertilizers and urea on growth of *Cajanus cajan* (tur): An environmental conservation approach" has been carried out by Mr. Ashish D. Zade in department of Chemistry VVACSC, Samudrapur under our supervision and that the material from other sources if any is duly acknowledged and that there is no plagiarism. This work has not been submitted earlier to any University/ Institution for any research degree/ diploma to the best of our knowledge.

Date: 22/03/2024

Place: Samudrapur

Recommended for
awards
16/5/2024

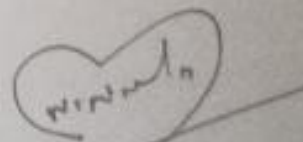


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Principal

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Dist. Wardha 442305



Dr. Meghasham N. Narule

Guide

Head, Department of Chemistry,
VVACSC, Samudrapur, Wardha

Dr. M. N. Narule
Head, Dept. of Chemistry
Vidya Vikas Art's, Commerce
& Science College, Samudrapur
Wardha 442305

A DISSERTATION REPORT
ON
"NAVIGATING THE CARBON DOT LANDSCAPE:
A REVIEW OF ADVANCES, CHALLENGES AND PROMISES."

Project submitted to the
Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
2023-24



For the partial fulfillment of the requirement for the degree of
Master of Science in Chemistry
(Faculty of Science)

By
Ms. Kanak Santosh Baraskar
M.Sc. Chemistry (Sem-IVth Student)

Under the guidance of
Mrs. Shital W. Awaghade
Assistant Professor
M. Sc. (NET)



POST GRADUATE DEPARTMENT OF CHEMISTRY
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SAMUDRAPUR, DIST-WARDHA



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Dr. K. G. Rewatkar
Principal

CERTIFICATE

This is to certify that the work reported in the M. Sc. Project entitled "Navigating the Carbon Dots Landscape: A Review of Advances, Challenges and Promises." has been carried out by *Ms. Kanak Santosh Baraskar* in department of Chemistry VVACSC, Samudrapur under our supervision and that the material from other sources if any is duly acknowledged and that there is no plagiarism.

This work has been not submitted earlier to any University/ Institution for any research, degree/diploma to the best of my knowledge.

Date: - 22-03-24

Place: - Samudrapur

Recommended for
Project
16/3/24

Asst. Prof. S. W. Awaghade
Project Supervisor

Dr. M. N. Narule
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Dr. K. G. Rewatkar
Principal
Principal
Vidya Vikas Art's Commerce
& Science College, Samudrapur
Dist. Wardha 442305

Project Submitted to
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

ON TOPIC

"Green route for synthesis of new organic fertilizer and its comparative study with urea on plant growth"



For the partial fulfilment of the requirement degree of

MASTER OF SCIENCE

In the faculty of science (CHEMISTRY)

By

Miss. Divya Sharadrao Ghugase

M.Sc. Chemistry (Sem-IVth Student)

Under the guidance of

Dr. M. N. Narule

M. Sc., M. Ed., MBA (HR), Ph. D (Chem), Ph. D (Mang)

POST GRADUATE DEPARTMENT OF CHEMISTRY

VIDYA VIKAS ARTS, COMMERCE AND SCIENCE COLLEGE
SAMUDRAPUR, WARDHA

Session 2023-2024

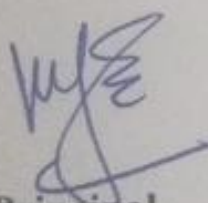
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This is to certify that the work reported in the M.Sc. Project entitled " Green route for synthesis of new organic fertilizer and its comparative study with urea on plant growth " has been carried out by *Ms. Divya S. Ghugase* in department of Chemistry VVACSC, Samudrapur under our supervision and that the material from other sources if any is duly acknowledged and that there is no plagiarism. This work has not been submitted earlier to any University/ Institution for any research degree/ diploma to the best of our knowledge.

Date: 22/03/24

Place: Samudrapur

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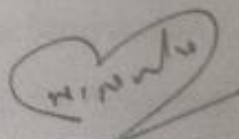


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Dr. Meghasham N. Narule

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Head, Department of Chemistry,

VVACSC Samudrapur, Wardha

Dr. M. N. Narule
Head, Dept. of Chemistry
Vidya Vikas Art's, Commerce
& Science College, Samudrapur
Wardha 442305

A
PROJECT
TOPIC
ON

**“VOLUMETRIC, VISCOMETRIC & REFRACTIVE INDEX BAHEVIOUR
OF SUGAR & POLYHYDRIC ALCOHOL IN AQUEOUS MEDIUM AT
ROOM TEMPRETURE”**

*Project Submitted to Rastrasant Tukdoji Maharaj Nagpur University,
Nagpur 2023-2024*



For The Partial Fulfillment of the requirement degree of

MASTER OF SCIENCE

In the faculty of science

(CHEMISTRY)

Submitted by

Miss. Ankita S. Mathankar

M.Sc.II nd year (Chemistry)

Under the guidance of

Dr. R.G.Gajbhiye

M.Sc., Ph. D., NET , SET , GATE

POST GRADUATE DEPARTMENT OF CHEMISTRY VIDYA
VIKAS ART'S, COMMERCE ANDSCIENCE COLLEGE
SAMUDRAPUR, DIST-WARDHA

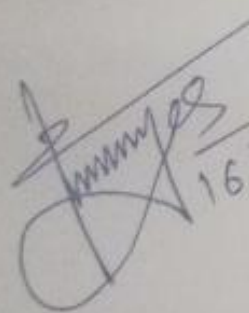
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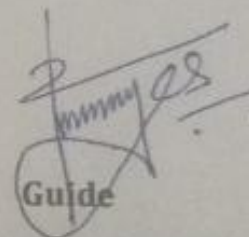
Certificate

This is to certify that the work reported in the M. Sc. Project entitled "VOLUMETRIC, VISCOMETRIC & REFRACTIVE INDEX BAHEVIOUR OF SUGAR & POLYHYDRIC ALCOHOL IN AQUEOUS MEDIUM AT ROOM TEMPRETURE" has been carried out by Miss. Ankita S. Mathankar in department of Chemistry VVACSC, Samudrapur under our supervision and that the material from other sources if any is duly acknowledged and that there is no plagiarism. This work has been not submitted earlier to any University / Institution for any research, degree / diploma to the best of my knowledge.

Date :-

Place :- Samudrapur


16/5/2024


Guide

Dr. R.G. Gajbhiye
Assistant Professor Of Chemistry
VVACSC , Samudrapur, Dist - Wardha

Head Of Department
Dr. M. N. Narule

Principal
Dr. K.G. Rewatkar

A DISSERTATION REPORT ON
"Advancement in the Exploration & Structural innovation of Rare Earth doped Color
conversion Phosphors for LED Application"

Project submitted to the
Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
2023-24



For the partial fulfillment of the requirement degree of

MASTER OF SCIENCE

In the faculty of science

By

Miss. Pranali D. Wath

M.Sc. Chemistry (Sem-IVth Student)

Under the guidance of

Mrs. Shital W. Awaghade

Assistance professor

M.Sc. (NET)



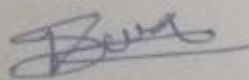
POST GRADUATE DEPARTMENT OF CHEMISTRY
VIDYA VIKAS ART'S, COMMERCE AND SCIENCE COLLEGE
SAMUDRAPUR, DIST-WARDHA

CERTIFICATE

This is to certify that the work reported in the M. Sc. Project entitled "Advancement in the exploration & structural innovation of color conversion phosphors for LED application" has been carried out by Miss Pranali D. Wath in department of Chemistry VVACSC, Samudrapur under my supervision and that the material from other sources if any is duly acknowledged and that there is no plagiarism. This work has been not submitted earlier to any University/ Institution for any research, degree/diploma to the best of my knowledge.

Date: - 22-03-2024

Place: - Samudrapur

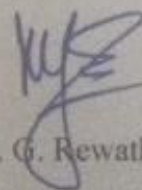


Asst. Prof. S. W. Awaghade

Project Supervisor



Dr. M. N. Narule
Head Department of
Chemistry



Dr. K. G. Rewatkar
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