



PROJECT SUBMITTED TO
UNIVERSITY OF PUNE

**“TO STUDY DIVERSITY OF NOCTURNAL INSECTS FOUND
IN WADZIRE VILLAGE, NASHIK, MAHARASHITRA, INDIA”**

FOR
**THE PARTIAL FULLFILMENT OF
DEGREE OF MASTER OF SCIENCE
IN ZOOLOGY**

YEAR
2021-2022



BY

MISS.AARATI CHANDRAKANT SANAP

UNDER GUIDENCE OF

Mrs. JAYSHREE SUDAMRAO SHINDE

P.G.DEPARTEMENT OF ZOOLOGY

G.M.D.COLLEGE SINNAR

SINNAR, NASHIK



CERTIFICATE

G.M.D.ARTS, B.W.COMMERCE, AND SCIENCE, COLLEGE, SINNAR

UNIVERSITY OF PUNE

This is to Certified that the Project

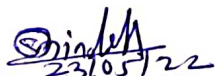
Work entitled

“TO STUDY DIVERSITY OF NOCTURNAL INSECTS FOUND IN WADZIRE VILLAGE, NASHIK, MAHARASHTRA, INDIA”

Was satisfactorily carried out by Miss. Aarati Chandrakant Sanap of M.S.C. 2 under my supervision and guidance during the academic year 2021-2022. The present project is submitted for the partial fulfilment of M.S.C. Degree of the University of Pune.

P.K. Department of Zoology

Sinnar College, Sinnar


Mrs. Jayshree S. Shinde

Project Guide


Examiner


DR.P.R. Kokate

Head, Dept. of Zoology

ACKNOWLEDGEMENT

It is a moment of great pleasure of me, in venturing out to present project. I would like to express my deep sense of gratitude toward my project guide **Mrs. Jayshree Sudamrao Shinde** for advice, encouragement and discussion throughout project work, which was very valuable.

I would also like to extent my gratitude towards our respected principle **P.V.Rasal** for providing facilities.

I am equally thankful to our Head Of Dept. **Dr. P. R. Kokate** for providing laboratory facilities during the project work.

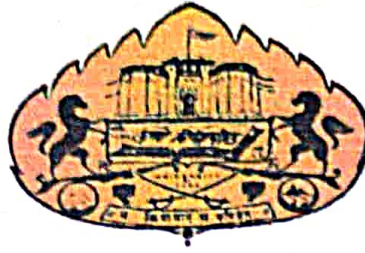
I can't forget the help provided by respected family members, specially my brother.

P.G.Department of Zoology

Sinnar College, Sinnar



Miss.Sanap Aarati Chandrakant.



SAVITRIBAI PHULE UNIVERSITY, PUNE

**FOR THE FULFILLMENT OF DEGREE OF MASTER OF
SCIENCE IN ZOOLOGY**

**STUDY OF DUNG BEETLE (Scarabaeidae) AND ASSOCIATED
INSECTS IN COW DUNG.**

**BY
Miss. ARKHADE RUPALI DATTATRAY**

**UNDER THE GUIDANCE OF
Smt. ~~D.V. Jangam~~
J.S. Shinde
Place of research work**



**P.G. DEPARTMENT OF ZOOLOGY
G.M.D ARTS, AND B.W. COMMERS AND SCIENCE COLLAGE
SINNAR**

APRIL 2021-2022



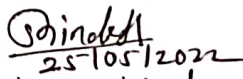
CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is to certify that the work incooperated in the dissertation entitled


**STUDY OF DUNG BEETLE (*Scarabaeidae*) ASSOCIATED INSECTS IN
COW DUNG**

We satatisfactioly carried out by miss. ARKHADE RUPALI DATTATRAY
Of MscII she is bonafied student iof this collage. She has completed this
project under my supervision and guidance during year 2021-2022 this
project work submitted by her is original and scientific information
obatained other source have been acknowledged.


25/10/2022
J.S. Shinde
Smt. D. V. Jangam

Project guide


examiner


25/10/2022
Associated professor
HEAD
DEPARTMENT OF ZOOLOGY
G.M.D. Arts, Commerce
and Science Collage, Sinmar.

Head of dept. of
zoology

G.M.D. Arts, B.W. Commerce and Science
College, Sinnar.



Study of House Cricket (*Acheta domestica*) in accounts of appendages, stridulating organ, from
Nashik region.

Project by:

Miss :- Bendkule Nanda Sampat.

Under the Guidance of:

Smt. J.S. Shinde. *Shinde* 25/05/2022

Dr. M. S. J. J. J.
DEPARTMENT HEAD
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar
ZOOLOGY

And Mrs. T. P. K. Hale sir.

**A PROJECT REPORT ON
STUDY OF THE LUMPY SKIN DISEASE ANIMAL**

Submitted by

Mr. Borhade Vishal Bharat

(Under the guidance mr. Chandore sir.)

In partial fulfillment for the award of the degree

Of

Master of science in Zoology

G.M.D. Arts , B.W. Commerce and science collage

Sinner , Nashik



Savitribai phule pune university , Pune 411 007

2021-22



G.M.D. Arts, B.W. Commerce and Science College Sinnar, Nashik

DEPARTMENT OF ZOOLOGY

CERTIFICATE

CERTIFICATE This is to certify that this project report **study of the lumpy skin disease animal** is the bonfire work of **Mr Borhade Vishal Bharat** of M.Sc. II during the academic year **2021-2022** who carried out the project work under my supervision.

PROJECT GUIDE

Mr. Chandore ^{Sinh} 25/5/22
Smt. J. S. Ghinde

INTERNAL EXAMINER

^{S.T. Pehlé} 25/5/2022
Department of Zoology

Dr. s.t pehlé
DEPARTMENT OF ZOOLOGY
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar

EXTERNAL EXAMINER



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE
FOR THE FULFILLMENT OF DEGREE OF MASTER OF
SCIENCE IN ZOOLOGY
EFFECT OF ALTERED TEMPERATURE ON
PREDATORY BEHAVIOUR OF LADY BIRD BEETLE
(Hippodamia Variegata)

BY
MISS. GADAKH POOJA ARJUN

UNDER THE GUIDANCE OF
Smt. D.V. Jangam

Place of research work



P.G. Department of Zoology
G.M.D. ARTS, B.W. COMMERCE AND SCIENCE
COLLEGE SINNAR

APRIL 2021-22



CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

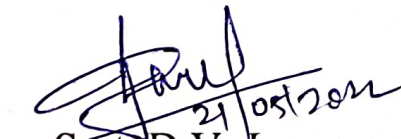
This is to certify that the work incorporated in the dissertation entitled

**EFFECT OF ALTERED TEMPERATURE ON
PREDATORY BEHAVIOUR OF LADY BIRD BEETLE
(Hippodamia Variegata)**

We satisfactory carried out by Miss. Gadakh Pooja Arjun of MSCII she is bonafied student of this collage. She has completed this project under my supervision and guidance during year 2021-22 this project work submitted by her is original and scientific information obtained other source have been acknowledged.

Your University,

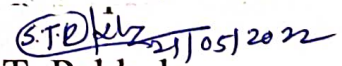
Miss. Gadakh Pooja Arjun


21/05/2022
Smt. D.V. Jangam

Project Guide



Examiner


21/05/2022

S.T. Pekhale

(Associate professor)

HEAD
Head of dept. of Zoology

G.M.D. Arts, B.W. Commerce
and Science College, Sinnar

Certificate

G.M.D.Arts, B.W.Commerce and Science College, Sinnar
Maharashtra 422103

Pune university

This is to certify that the project work entitled

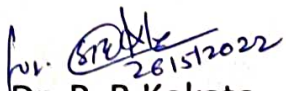
“Type of Snail of Shells”

Was satisfactorily carried out by Ms. Gangurde Shweta Mohanrao of M.Sc. II under my supervision and guidance during the academic year 2021-22. The present project is submitted for the partial fulfillment of M.Sc. Degree of the University of Pune.


Prof. L. S. Chandore

Project guide


26/5/2022
Examiner


26/5/2022
Dr. P. R. Kokate
HEAD
DEPARTMENT OF ZOOLOGY
Head, dept. of zoology
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar

Acknowledgement

It is the movement of great pleasure for me, in venturing out to present project. I would like to express my deep sense of gratitude towards my project guide for advice, encouragement and discussion throughout the project work, which was valuable

I would also like to extend my gratitude our respected principal Dr. P.V. Rasal for providing facilities.

I am equally thankful to our Head of the Dr. P. R.Kokate for providing laboratory facilities during the project work.

I can't forget the sincere help extended by our respected professors L. S. Chandore of zoology Department. I would also like to thank to my classmates & laboratory staff for their king help & cooperation.

I can't forget the help provided by my **respected family members.**

P.G. Department of zoology

G.M.D.Arts, B.W.Commerce and Science College,Sinnar

Ms. Gangurde Shweta Mohanrao

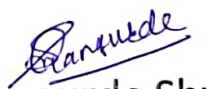
Declaration

I hereby declare that. The project entitled is an outcome of own efforts under the guidance of Prof. L. S. Chandore. The project is submitted to the university of pune. For the partial fulfillment of the Master of science examination on 2021-22.

I also declare that this project report has not been previously submitted to any other university.

Date: -

Place: -


Ms. Gangurde Shweta Mohanrao

**A PROJECT REPORT ON
STUDY OF LIFE CYCLE OF
CROP PEST**

Submitted by

Mr. Jadhav krishna vitthal

(Under the guidance Smt J.S.shinde)

In partial fulfillment for the award of the degree

Of

Master of science in Zoology

G.M.D. Arts , B.W. Commerce and science collage

Sinner , Nashik



Savitribai phule pune university , Pune 411 007

APRIL 2021-2022

2021-22



G.M.D. Arts, B.W. Commerce and Science College Sinnar, Nashik

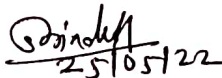
DEPARTMENT OF ZOOLOGY

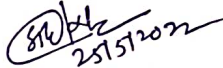
CERTIFICATE

CERTIFICATE This is to certify that this project report “Study of the life cycle of crop pest” is the bonfire work of “Mr Jadhav krishna vitthal” of M.Sc. II during the academic year 2021-2022 who carried out the project work under my supervision.

PROJECT GUIDE

Smt .J .s.shinde


25/05/22
INTERNAL EXAMINER


25/5/2022
Department of Zoology

Prof.S.T.Pekar
DEPARTMENT OF ZOOLOGY
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar

EXTERNAL EXAMINER



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

FOR THE FULFILLMENT OF

**“COMPARATIVE STUDY OF PHYSICOCHEMICAL PARAMETER OF
VARIOUS WATER BODY IN SINNAR TAHASIL, NASHIK (M.S) INDIA”**

DEGREE OF MASTER OF SCIENCE IN ZOOLOGY

BY

MS. Jayshri Madhukar Daware

UNDER THE GUIDANCE OF

Prof.V.S.Varpe

PLACE OF RESEARCH WORK

P.G.DEPARTMENT OF ZOOLOGY

G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE, NASHIK.


APRIL 2021-2022



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE


CERTIFICATE

This is certify that the work incorporated in the dissertation entitled "**COMPARATIVE STUDY OF PHYSICOCHEMICAL PARAMETER OF VARIOUS WATER BODY IN SINNAR TAHASIL, NASHIK (M.S) INDIA**" Was satisfactorily carried out by **Ms. Jayshri Madhukar Daware**. Of M.Sc. II. She is bonafide student of this college. She has completed this project under the my supervision and guidance during academic year 2021-2022. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.


21.05.22
Prof.V.S.Varpe

Project Guide


Examiner


Dr.P.R.Kokate
HEAD
DEPARTMENT OF ZOOLOGY
Head, Dept. of Zoology
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar

ACKNOWLEDGMENT

It gives me great pleasure to take the opportunity to express my sincere thanks to my research guide **Prof. V.S.Varpe**. for his encouragement, guidance, his constructive suggestions and all sorts of help ever since the very inception of the study.

I am thankful to **Dr. P.V.Rasal**, Principal,G.M.D.College, Sinnar for providing necessary facilities to carry out project work. I equally thankful to the **Dr.P.R.Kokate** Head of the Department of Zoology for providing laboratory facilities and guidance in completing the project work. I express my thanks to all my respected teachers and non-teaching staff of Department of Zoology for all the help and kind co-operation during the project.

I am very thankful to all my classmate specially **Shubhangi Khute, Prachi Sonawane, Kajal Avhad, Rohini Gadekar** for their continuous support and enjoyable help throughout the year.

I am greatly indebted to my parents for their continuous support, wholehearted encouragement, funding all my education and project work and constant source of inspiration in each step of my life.

Finally, here I take an opportunity of thanks to all wishes for their compliments.

Place : P.G.Dept.of Zoology

G.M.D. College, Sinnar

Date : 23.05.2022

Ms. Jayshri Madhukar Daware

M.Sc.II (Zoology)



**SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE FOR THE
FOR THE FULLFILMENT OF
DEGREE OF MASTER OF SCIENCE IN ZOOLOGY**

**“STUDY ON MORPHOLOGICAL ASPECTS AND LIFE
CYCLE STAGES OF SQUASH BUG FROM VILLAGE
JAMGOAN, SINNAR TAHSIL”**

BY

MS.KAJAL SHIVAJI AVHAD

UNDER THE GUIDANCE OF

ASSOCIATE PROF.S.T.PEKHALE

PLACE OF REASEARCH WORK

P.G. DEPARTMENT OF ZOOLOGY

**G.M.D ARTS, B.W.COMMERCE AND SCIENCE COLLEGE,
NASHIK**


APRIL 2021-2022



CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

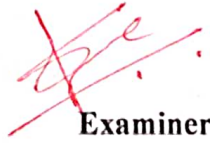
This is to certify that the work incorporated in the dissertation entitled "**STUDIES OF BEHAVIOURAL ASPECTS OF FRESHWATER OSTRACODA FROM SARADWADI AND JAMGOAN DAM, (SINNAR TAHSHIL)**" Was satisfactorily carried out by **Ms.Rohini Popat Gadekar.** of **M.Sc.II** She is bonafide student of this college. She has completed this project under the supervision and guidance during academic year 2021- 2022. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledgement.



26/5/2022

Prof. S.T. Pekhale

(Associate professor)

Project guide


Examiner


26/5/2022

Dr.P.R.Kokate

Head Dept of Zoology

ACKNOWLEDGMENT

It gives me great pleasure to take the opportunity to express my sincere thanks to my research guide **Associate.prof.S.T.Pekhale** for his encouragement, guidance his constructive suggestion and all sorts of help ever since the very inception of the study.

I am thankful to **Dr.P.V.Rasal**, principal, G.M.D.Arts B.W.Commerce And Science College, Sinnar for providing necessary facilities to carry out project work. I equally thankful to the **Dr.P.R.Kokate**, Head of the Department of Zoology for providing laboratory facilities and guidance in completing the project work. I express my thanks to all my respected teachers and staff of Department of Zoology for all the help and kind co-operation during the project.

I am very thankful to all my classmates for their continuous support and enjoyable help throughout the year.

I am greatly indebted to my parents for their continuous support, wholehearted encouragement, funding all my education and project work and constant source of inspiration in each step of my life.

Finally, here I take an opportunity of thanks to all wishes for their compliments.

Place: P.G.Dept of Zoology

G.M.D.College, Sinnar

Date: 23.05.2022

Ms.kajal Shivaji Avhad

M.Sc.II(Zoology)



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE
FOR THE FULFILLMENT OF
DEGREE OF MASTER OF SCIENCE IN ZOOLOGY
“FRESHWATER ORGANISM BIODIVERSITY OF
SARDWADI DAM IN NASHIK DISTRICT
MAHARASHTRA, INDIA”

BY

MS. KHUTE SHUBHANGI RAJENDRA

UNDER THE GUIDANCE OF

Smt. J. S. Shinde

PLACE OF RESEARCH WORK



P.G. DEPARTMENT OF ZOOLOGY
G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE
COLLEGE, NASHIK.

APRIL 2021-2022

1786.

ACKNOWLEDGMENT

It gives me great pleasure to take the opportunity to express my sincere thanks to my research guide **Smt. J.S. Shinde.** for his encouragement, guidance, his constructive suggestions and all sorts of help ever since the very inception of the study.

I am thankful to **Dr. P.V.Rasal,** Principal, G.M.D College, Sinnar for providing necessary facilities to carry out project work. I equally thankful to the **Associate. Prof. S.T.Pekhale,** Head of the Department of Zoology for providing laboratory facilities and guidance in completing the project work. I express my thanks to all my respected teachers and non-teaching staff of Department of Zoology for all the help and kind co-operation during the project.


I am greatly indebted to my parents for their continuous support, wholehearted encouragement, funding all my education and project work and constant source of inspiration in each step of my life.

Finally, here I take an opportunity of thanks to all wishes for their compliments.

Place : P.G.Dept.of Zoology

G.M.D. College, Sinnar

Date : 19.05.2022


Ms.Khute Shubhangi Rajendra

M.Sc.II(Zoology)

A PROJECT REPORT ON

Lady Bug Beetle; A friend of farmer a survey study

Submitted by

Mr. Murkute Tushar Namdev

(Under the guidance of Ms. Arati Tidame)

In partial fulfillment for the award of the degree

Of

Master of science in Zoology

G.M.D. Arts , B.W. Commerce and science collage

Sinner , Nashik



Savitribai phule pune university , Pune 411 007

2021-2022



G.M.D. Arts, B.W. Commerce and Science College Sinnar, Nashik

DEPARTMENT OF ZOOLOGY

CERTIFICATE

CERTIFICATE This is to certify that this project report “**Study of the life cycle of Lady Bug Beetle**” is the bonfire work of “**Mr Murkute Tushar Namdev** of M.Sc. II during the academic year 2020-2021 who carried out the project work under my supervision.

Arati Tidame
21/05/22
PROJECT GUIDE

Ms. Arati Tidame

Dr. Indu
21/05/2022
INTERNAL EXAMINER

Department of Zoology
S.T. Phekale 21/5/2022
Ass.prof S.T.Phekale
HEAD
DEPARTMENT OF ZOOLOGY
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar
EXTERNAL EXAMINER

**STUDIES ON APHIDS, THE MOST DESTRUCTIVE
INSECT PEST OF CROP PLANT**

**PROJECT SUBMITTED TO
SAVITRIBAI PHULE PUNE UNIVERSITY**



**FOR
THE PARTIAL FULFILLMENT OF
DEGREE OF MASTER OF SCIENCE IN ZOOLOGY**

**YEAR
2021 – 2022**

**BY
MISS. PATHADE KAJAL BANDU**

**UNDER GUIDANCE OF
SMT. J. S. SHINDE**



**P.G. DEPARTMENT OF ZOOLOGY
G.M.D COLLEGE SINNAR
SINNAR, NASHIK**



CERTIFICATE

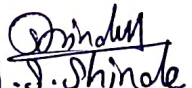

G.M.D. Arts, Commerce B.W. Science College Sinnar


SAVITRIBAI PHULE PUNE UNIVERSITY

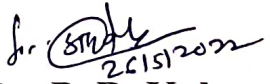
This is to certify that the project work entitled

**STUDIES ON APHIDS, THE MOST DESTRUCTIVE
INSECT PEST OF CROP PLANT**

Was satisfactorily carried out by **Miss. Pathade Kajal Bandu** of M.Sc. II under my supervision and guidance during the academic year 2021-2022. The present project is submitted for the partial fulfillment of M.Sc. Degree of the University Of Pune.


Asst. Prof.. J. S. Shinde
23/05/2022

Project Guide


Examiner


Dr. P. R. Kokate
HEAD
DEPARTMENT OF ZOOLOGY
G.M.D. Arts, Commerce B.W. Science College,
and Science College, Sinnar

**“STUDY OF SOME ASPECTS OF OLEANDRE APHID
(*Aphis nerii*) TREATED WITH CAMPHOR OIL”**

Project Submitted To



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

For The Fulfillment of

Degree of Master of Science in ZOOLOGY

By

Miss. Prachi Sharad Sonawane

Under The Guidance Of

Smt. Deepika Vishwanath Jangam

Center



G. M. D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE SINNAR

April May 2022

CERTIFICATE

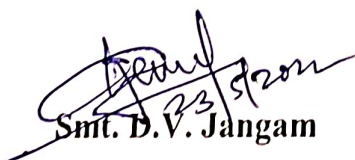
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is to certify that the work incorporated in the dissertation

**“STUDY OF SOME ASPECTS OF OLEANDER
APHID (*Aphis nerii*) TREATED BY CAMPHOR OIL.”**

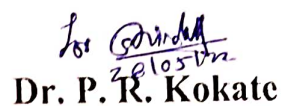
Was satisfactorily carried out by Miss. **Prachi Sharad Sonawane**

Of M.Sc.II. She is bonafide student of this collage. She has completed this project under my supervision and guidance during year 2021-2022. This project work submitted by her is original and the scientific information obtained other sources have been acknowledged.


Smt. D.V. Jangam

Project Guide


Examiner


Dr. P. R. Kokate


HEAD
HEAD of dept of Zoology
G.M.D. & B.W. Commerce
and Science College, Sinnar

ACKNOWLEDGEMENT

It gives me a great pleasure to take the opportunity to express my sincere thanks to my project guide, **Smt. D. V. Jangam**. For her encouragement, guidance, her constructive suggestions and all sorts of help since the very inception of study.

I am thankful to **Dr. P. V. Rasal**, principle of G. M. D. Arts B.W. Commerce, and Science Collage, Sinnar for providing necessary facilities to carry out project work. I equally thankful to the **Dr. P. R. Kokate**, Head of Department of Zoology for providing laboratory facilities and guidance in completing the above project work. I express my thanks to all my respected teacher and non-teaching staff of Department of Zoology for all the help and kind co-operating during the project time.

I am very thankful to my friends specially **Kute Shubhangi, Gadekar Rohini** and **Daware Jayshri** for their continuous support and enjoyable help throughout the year.

I am greatly thankful to my parents for their continuous support, encouragement, funding all my education and project work and constant source of inspiration in each step of my life.

Place: P.G.Dept. of Zoology

G.M.D. Collage, Sinnar.

Date:


Miss. Sonfawane Prachi Sharad

M.Sc.II (Zoology)



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

FOR THE FOR THE FULLFILMENT OF
DEGREE OF MASTER OF SCIENCE IN ZOOLOGY

**“STUDIES ON BEHAVIOURIAL ASPECTS OF
FRESHWATER OSTRACODA FROM SARADWADI AND
JAMGOAN DAM, (SINNAR TAHSIL)”**

BY

MS.ROHINI POPAT GADEKAR

UNDER THE GUIDANCE OF

ASSOCIATE PROF.S.T.PEKHALE

PLACE OF REASEARCH WORK

P.G. DEPARTMENT OF ZOOLOGY

**G.M. D ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,
NASHIK**

APRIL 2021-2022



CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is to certify that the work incorporated in the dissertation entitled "**STUDIES OF BEHAVIOURAL ASPECTS OF FRESHWATER OSTRACODA FROM SARADWADI AND JAMGOAN DAM, (SINNAR TAHSHIL)**" was satisfactorily carried out by **Ms. Rohini Papat Gadekar**, of **M.Sc. II**. She is a bonafide student of this college. She has completed this project under the supervision and guidance during academic year 2021- 2022. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.

Prof. S.T. Pekhale
(Associate professor)
Project guide

Examiner

for.
26/5/2022

Dr. P.R. Kokate
Head Dept of Zoology

ACKNOWLEDGMENT

It gives me great pleasure to take the opportunity to express my sincere thanks to my research guide **Associate.prof.S.T.Pekhale** for his encouragement, guidance his constructive suggestion and all sorts of help ever since the very inception of the study.

I am thankful to **Dr.P.V.Rasal**, principal,**G.M.D Arts B.W.Commerce And Science College, Sinnar** for providing necessary facilities to carry out project work. I equally thankful to the **Dr.P.R.Kokate**, Head of the Department of Zoology for providing laboratory facilities and guidance in completing the project work. I express my thanks to all my respected teachers and staff of Department of Zoology for all the help and kind co-operation during the project.

I am very thankful to all my classmates specially **Kajal Avhad, Shubhangi Khute**, for their continuous support and enjoyable help throughout the year.

I am greatly indebted to my parents for their continuous support, wholehearted encouragement, funding all my education and project work and constant source of inspiration in each step of my life.

Finally, here I take an opportunity of thanks to all wishes for their compliments.

Place: P.G.Depto of Zoology

G.M.D.College, Sinnar

Date: 23.05.2022

Ms.Rohini Papat Gadekar

M.Sc.II(Zoology)


G.M.D. Arts , B.W. Commerce and Science
College, Sinnar.

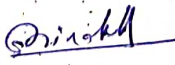


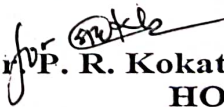
Certificate

This is to certify that the work incorporated in the Dissertation entitled "*To study House Cricket (AchetoDomesticus)*" Was satisfactorily carried out by *Mrs. SanapSaraswati Ramesh* of MSc II Degree of SavitribaiPhule Pune University.

She is bonafied student of this college. She has completed this project under my supervision and guidance during academic year 2021-22. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledgement.


Mrs. Jayshree S. Shinde
Project Guide


External Examiner


Dr. P. R. Kokate
HOD

ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude and deep regards to my guide Mrs. Jayshree S. Shinde, who gave me the golden opportunity to pursue this dissertation entitled "*To study House Cricket (Acheto Domesticus)*". I have tried my best in this dissertation; however, she provided an exemplary guidance, monitoring and constant encouragement throughout the course. My deepest sense of gratitude to God, who guided and gave me the strength and abilities to complete this project work successfully.

I am also extremely grateful to Dr. P. R. Kokate, HOD, Department of Zoology for the technical guidance. I also thank Principal Dr. P. V. Rasal for motivation to do this work.



Mrs. Saraswati Ramesh Sanap

P. G. Zoology Department
Sinnar College Sinnar.



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

FOR THE FULFILLMENT OF

DEGREE OF MASTER OF SCIENCE IN ZOOLOGY

**“ESTIMATION OF PROTEIN FROM VARIOUS BODY PART OF
MACROBRANCHIUM ROSENBERGII”**

BY

MS. SATPUTE JYOTI CHANDRABHAN

UNDER THE GUIDANCE OF

ASSI. PROF. S. S. BHAMARE

PLACE OF RESEARCH WORK



P.G. DEPARTMENT OF ZOOLOGY

**G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,
NASHIK.**

APRIL 2021-2022




G.M.D ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,
NASHIK.

CERTIFICATE

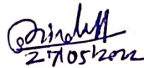
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

This is certify that the work incorporated in the dissertation entitled
**“ESTIMATION OF PROTEIN FROM VARIOUS BODY PART OF
MACROBRANCHIUM ROSENBERGII”**

Was satisfactorily carried out by Ms Satpute Jyoti Chandrabhan. Of M.Sc. II. She is bonafide student of this college. She has completed this project under the supervision and guidance during academic year 2021-2022. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.


23/05/22
Assi. prof. S. S. Bhamare

Project Guide


27/05/2022
Examiner


26/5/2022
Asso. Prof. S. T. Pekhale
HEAD

DEPARTMENT OF ZOOLOGY
Head, Dept. of Zoology
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar

ACKNOWLEDGMENT

It gives me great pleasure to take the opportunity to express my sincere thanks to my research guide **Assi. prof. S.S Bhamare** for his encouragement, guidance, his constructive suggestions and all sorts of help ever since the very inception of the study.

I am thankful to **Dr. P.V.Rasal**, Principal, G.M.D College, Sinnar for providing necessary facilities to carry out project work. I equally thankful to the **Assoc.Prof.S.T.Phekhale**, Head of the Department of Zoology for providing laboratory facilities and guidance in completing the project work. I express my thanks to all my respected teachers and non-teaching staff of Department of Zoology for all the help and kind co-operation during the project.

I am greatly indebted to my parents for their continuous support, wholehearted encouragement, funding all my education and project work and constant source of inspiration in each step of my life.

Finally, here I take an opportunity of thanks to all wishes for their compliments.

Place : P.G.Dept.of Zoology

G.M.D. College, Sinnar

Date : 14.05.2022

Ms. Satpute Jyoti Chandrabhan

M.Sc.II(Zoology)



SAVTRIBAI PHULE PUNE UNIVERSITY, PUNE

CERTIFICATE

This is certify that the work incorporated in the dissertation entitled **STUDY ON MORPHOLOGICAL ASPECT OF DRUG STORE BEETLE (STEGOBIUM PANICEUM, FAMILY ANOBIIDAE)** was satisfactorily carried out by **Ms. SIRSAT SHITAL DIPAK** OF M.Sc. II. She is bonafide student of this college. She has completed this project under the supervision and guidance during academic year 2021-2022. This project work submitted by her original and the scientific information's obtained from other sources have been duly acknowledged.

S.T. Pekhale
26/5/2022

Prof. S.T. Pekhale

Project Guide

P.R. Kokate
26/5/2022

Examiner

P.R. Kokate
26/5/2022

Dr. P.R. Kokate
HEAD

DEPARTMENT OF ZOOLOGY
G.M.D. Arts, B. Commerce
and Science College, Sinnar

ACKNOWLEDGEMENT

It gives me great pleasure to take the opportunity to express my sincere thanks to my research guide **prof. S.T. Pekhale sir**. For his encouragement guidance his constructive suggestions and all sorts help ever since the very inception of the study

I am thankful to **Dr.P.V Rasal, principal** , G.M.D college sinnar for providing necessary facilities to carry out project work I equally thankful to the **Dr.P.R.kokate** head of the department of zoology for providing laboratory facilities and guidance vin completing the project work . I express my thanks to all my respect techers and non teaching staff of department of zoology for all the help and kind co operation during the project

I am thankful to my entire classmate specially **jayshri Daware, kajal Avhad , Rohini Gadekar** for their continuous support and enjoyable help throughout the year.

I am greatly indebted to my parents for their continuous support wholehearted encouragement . funding all my education and project work and constant source of inspiration in each step of my life .

Finally. here I take an opportunity of thanks to all wishes for their compliment

Place :P.G. Dept. Of Zoology

G.M.D college sinnar

Date :23/5/2022



Ms Sirsat Shital Dipak
M.Sc.II Zoology



SAVITRIBAI PHULE UNIVERSITY,PUNE
FOR THE FULFILMENT DEGREE OF MASTER OF
SCIENCE IN ZOOLOGY

STUDY OF ROLE OF VERIOUS TYPE OF NOCTARNAL
INSECT,POLLINATION

BY

MISS UGALE KANCHAN KERU

UNDER THE GUIDANCE OF

Shr. L.C Chandore

Place of research work



P.G DEPARTMENT OF ZOOLOGY
G.M.D ARTS B.W COMMERCE AND SCIENCE COLLAGE ,
SINNAR
APRIL 2021-2022




CERTIFICATE

G.M D . ARTS , B.W .COMMERCE & SCIENCE
COLLEGE SINNAER,

UNIVERSITY OF PUNE

This is to certify that the project work entitled.
**"THE ROLE OF NOCTORNAL INSECT IN
POLLINATION "**

Was satisfactorily carried out by Mr...L.S Chandore
sir of M.SC II under my supervision and guidance during
the academic year 2021-2022. The present project is
submitted for the partial fulfilment of M.SC Degree of the
University of Pune


L.S.Chandore
Project guide


23/05/22
Examiner

for 
23/05/2022
DR.PR.KOKATE
Head . dept .of zoology

**“ A STUDY OF COVID-19 IMPACT VARIOUS SECTOR
IN SINNAR TAHASIL”**



**SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE
FOR THE FULFILLMENT OF
DEGREE OF MASTER OF SCIENCE IN ZOOLOGY**

BY

MS. VAISHNAV KAJAL SUNIL

UNDER THE GUIDANCE OF

ASST. PRO. I.S.GHUMARE

PLACE OF RESEARCH WORK



**PG DEPARTMENT OF ZOOLOGY
G.M.D. ARTS AND B.W. COMMERCE AND SCIENCE
COLLEGE, NASHIK**

APRIL 2021- 2022



G.M.D. ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE,
NASHIK


CERTIFICATE

SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE


This is to certify that the work incorporated in the dissertation entitled

**“A STUDY OF COVID-19 IMPACT ON VARIOUS SECTOR
IN SINNAR TAHASIL.”**

was satisfactorily carried out by **Ms. Vaishnav Kajal Sunil** of MSc II she is a bonafidestudent of this college. she has completed this project under my supervision and guidance during the academic year 2021 - 2022 this project work submitted by her original and the scientific information obtained from other sources have been duly acknowledged.


22/05/2022
Asst. Prof. I.S. Ghumare
Project Guide


26/5/2022
examiner


26/5/2022
Dr. P.R. Kokate
HEAD
DEPARTMENT OF ZOOLOGY
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar

ACKNOWLEDGEMENT

It gives me great pleasure to take the opportunity to express my sincere thanks to my research guide **assistant professor I.S.Ghumare** for her encouragement guidance is constructive suggestions and all sorts of help ever since the very Inception of the study.

I am thankful to **DR. P.V.RASAL** principal G.M.D. ARTS, AND B.W. COMMERCE AND SCIENCE COLLEGE, NASHIK for providing necessary facilities to carry out project work equally thankful to the **DR. P.R. KOKATE** head of the department of zoology for providing laboratory facilities and guidance in completing the project work I express my Thanks to all my respected teachers and non teaching staff of department of zoology for all the help and kind co-operation during the project.

I am greatly indebted to my parents for their continued support wholehearted encouragement, funding for all my education and project work and a constant source of inspiration in each step of my life.

Finally here I take an opportunity of Thanks to all wishes for their compliments

Place: department of zoology

G.M.D. college, Sinnar

Date: ~~18/04~~ 2022



Ms. Vaishnav Kajal Sunil

M.Sc. II (Zoology)