

M.Sc. Second Year Zoology Project Title list for SUMMER-2023 Exam

Sr. No.	Seat No.	Name of Student	Project Title	Sign
1	DB67253	BANGAR VAISHNAVI NARESH	Study of physicochemical and biological parameters of siddheshwar dam.	<i>Bangar</i>
2	DB67254	BENDRE SONALI ANKUSH	Study of Bhatsagam Breeding Centre	<i>Abebe</i>
3	DB67255	BHUKTAR BHAVNA DILIP	Nutrition Requirements of fish	<i>Bhuktar</i>
4	DB67256	BODKHE KIRAN NAMDEV	The Study of Arian fauna in Hingoli city	<i>Skiran</i>
5	DB67257	DALVE POOJA RAMESH	Economics of Importance of Apiculture	<i>Pooja</i>
6	DB67258	DESHMUKH GAYATRI PURUSHOTTAM	Advanced Practices in Sericulture	<i>Greshmukh</i>
7	DB67259	DOIPHODE DIPALI SUDHIRRAO	Effect of contamination of fresh water fishes.	<i>Dipali</i>
8	DB67260	GAIKWAD PRIYANKA NILKANTH	Nesting Behaviour of Birds in Hingoli city	<i>Priyanka</i>
9	DB67261	GHUGE SANKET SANDEEP	Study of freshwater fish diseases and impact	
10	DB67262	GHYAR VARSHA MADHAVRAO	Planktons and water quality of any River area	<i>Varsha</i>
11	DB67263	GORE SHALINI VASANTRAO	Study of aquatic animals in around the living area	<i>Shalini</i>
12	DB67264	INGOLE RANI SANJAY	Mosquito and its morphology	<i>Ranjale</i>
13	DB67265	INGOLE SHITAL LAXMAN	Study of the various fish product economic importance	<i>Shital</i>
14	DB67266	JOJAR ASHA BALAJI	Fish diversity of Bhima river	<i>Asha</i>
15	DB67267	KADAM DIVYA YASHVANTRAO	Diversity of freshwater Aquatic animals siddheshwar Dam	<i>Divya</i>
16	DB67268	KALE SONALI DAMODAR	ABSENT	

HEAD

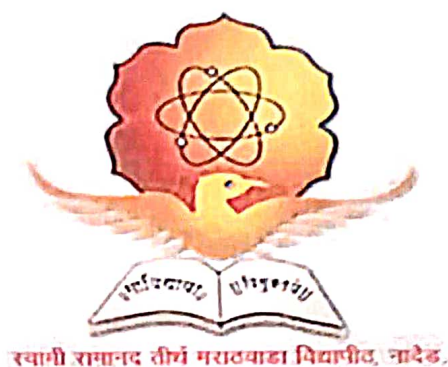
17	DB67269	KAMBLE TUKARAM PRAKASH	study of Nesting behaviour pattern of Bird in Around Hingoli's	<u>Birds</u>
18	DB67270	KAWANE NIKITA VILAS	Study of Birds feathers patterns	<u>Avian</u>
19	DB67271	KAWANE SANKET SIDDHARTH	Study of modern practice of Agriculture	<u>Avian</u>
20	DB67272	KHOKLE VARSHA BHAGWAN	Study of aquatic ecosystem of freshwater pond in Chitray shah darga lake	<u>Snake</u>
21	DB67273	KORDE GANESH SUBHASH	Biodiversity of lady bittle in Hingoli District	<u>Snake</u>
22	DB67274	KURWADE ANKITA SHANKAR	Impact of heavy metal in production of fish	<u>Snake</u>
23	DB67275	LONKAR MANSI RAMESH	collection information about birds from surrounding area	<u>Bird</u>
24	DB67276	NAIK PRIYANKA RAMESH	Study of differential fish preservation method in local area	<u>Bird</u>
25	DB67277	NEHUL DEVKANYA LAXMAN	Study of various fish by-product of Economic importance	<u>Bird</u>
26	DB67278	PATOLE PRIYANKA PANDITA	Diversity of any insect from different area of locality	<u>Physiol</u>
27	DB67279	PATRE PRIYA RAJENDRA	Study on differential fish pond management	<u>P. - C. water</u>
28	DB67280	RATHOD VIDHYA PRADHAN	Study of source and impact of forest fire	<u>Bird</u>
29	DB67281	SAVALE NAGESH SHANKARRAO	Apiculture (It's uses types and byproducts)	<u>Avian</u>
30	DB67282	SHAIKH SHAGUFTA UMAR	Study of commercially important fishes in Chingolish lake	<u>surveys</u>
31	DB67283	SONTAKKE KOMAL KULBHUSHAN	Study of Medicinal use of fish	<u>Snake</u>
32	DB67284	SURYAWANSHI VIDHYA ASHOK	Effect of Heavy metals contaminated water on fishes	<u>Snake</u>
33	DB67285	THITE SHEETAL PANJABRAO	The snake diversity in an around hingoli city	<u>Snake</u>
34	DB67286	WAVHAL SONAL CHHATRAPATI	Advance practices in Vermicomposting	<u>Avian</u>

HEAD

Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science Collr

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

A PROJECT WORK



Dissertation on

**“STUDY OF PHYSIOCOCEMICAL,
BIOLOGICAL PARAMETERS OF SHIDDHESHWAR
DAM ”**

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

In Partial fulfilment of the requirement
for the Degree of Master of Science in Zoology

SUBMITTED BY

MS. VAISHNAVI NARESH BANGAR

M.Sc. Second Year (Zoology)

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431517

UNDER THE GUIDANCE OF

P.S.PATODE

ASSOCIATE PROFESSOR

PG DEPARTMENT OF ZOOLOGY

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,

HINGOLI -431513

(2022-2023)

CERTIFICATE

This to certify that the project entitled, “**STUDY OF
PHYSIOCOCEMICAL, BIOLOGICAL PARAMETERS OF
SHIDDHESHWAR DAM**” submitted for the award of degree of

Master of Science in Zoology to Swami Ramanand Teerth
Marathwada University, Nanded is a record of bonafide research
carried out by Ms. **VAISHNAVI NARESH BANGAR**, M. Sc. Second Year,
Post Graduate Department of Zoology, Adarsh College, HINGOLI,
Dist. Hingoli- 431517 under my guidance and supervision. The
matter presented through the project has not been submitted
previously for the award of any Degree or any other similar title on
this any other University.

Spalalo

P. S. PATODE
Project Supervisor

R

Dr. B. S. Salve
Head & Professor
PG Department of Zoology
Adarsh Education Society's
Arts, Commerce & Science
College,
HINGOLI -431517

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College

my name

BBB

CONTENTS

Serial No.	Name of contents	Page No.
1.	Introduction	6
2.	Review of Literature	7
3.	Material and Methods	8-36
4.	Observations and Result	37-40
5.	Discussion	41
6.	Conclusion	42
7.	References	43-44

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED
A PROJECT WORK**



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

Dissertation on

**“STUDY OF BHATEGAON BREEDING
CENTRE”**

SUBMITTED TO

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

**In Partial fulfilment of the requirement
for the Degree of Master of Science in Zoology**

SUBMITTED BY

Ms. Sonali Ankush Bendre

M.Sc. Second Year (Zoology)

**ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE &
SCIENCE COLLEGE,
HINGOLI -431517**

UNDER THE GUIDANCE OF

Prof. P.R. Khandare

ASSOCIATE PROFESSOR

PG DEPARTMENT OF ZOOLOGY


ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE &
SCIENCE COLLEGE,
HINGOLI -431513

(2022-2023)

CERTIFICATE

This to certify that the project entitled, “Study Of Bhategaon Breeding Centre” submitted for the award of degree of Master of Science in Zoology to Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafide research carried out by Ms. SONALI ANKUSH BENDRE, M. Sc. Second Year, Post Graduate Department of Zoology, Adarsh College, HINGOLI, Dist. Hingoli- 431513 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.

Prof. P. R. Khandare
Project Supervisor


Dr. B. S. Salve
Head & Professor
PG Department of Zoology
Adarsh Education Society's
Arts, Commerce & Science
College,
HINGOLI -431517

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College
HINGOLI -431513


**ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE &
SCIENCE COLLEGE,
HINGOLI -431513**

(2022-2023)

CERTIFICATE

This to certify that the project entitled, “Study Of Bhategaon Breeding Centre” submitted for the award of degree of Master of Science in Zoology to Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafide research carried out by Ms. SONALI ANKUSH BENDRE, M. Sc. Second Year, Post Graduate Department of Zoology, Adarsh College, HINGOLI, Dist. Hingoli- 431513 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.

Prof. P. R. Khandare
Project Supervisor


Dr. B. S. Salve
Head & Professor
PG Department of Zoology
Adarsh Education Society's
Arts, Commerce & Science
College,
HINGOLI -431517

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College²
HINGOLI -431513

CONTENTS

Serial No.	Name of contents	Page No.
1.	Introduction	6
2.	Review of Literature	8
3.	Material and Methods	9-11
4.	Observations and Result	12
5.	Discussion	13-14
6.	Conclusion	15
7.	References	16

SWAMI RAMANAD TEERTH MARATHAWADA UNIVERSITY NANED.

A

**PROJECT REPORT ON
STUDY OF AVIAN FAUNA OF HINGOLI, DIST.**

**SUBMITTED BY
MR. BODKHE KIRAN NAMDAV**

MSC.IInd.YEAR.

(ZOOLOGY)

UNDER THE GUIDANCE OF

Dr. SALVE B.S. Sir.

SUBMITTED TO

DEPARTEMENT OF ZOOLOGY

ADARSH EDUCATION SOCIETY'S ARTS, COMERCE AND SCIENCE COLLEGE,

HINGOLI-431513

(2022-2023)

CERIFICATE

This is to certify that the project entitled, "Study of Avian fauna of " submitted for the award of Degree of Master of Science in zoology to the Swami RamanandMarathwada University, Nanded is record of bonafied research carried out by Mr. BODKHE KIRAN NAMDEV. MSC. Second. Year, research and Post Graduate Department of Zoology, Adarsh College, Hingoli 431513 (M.S) under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar titled to this or any other university.



PRADNYA MUJMULE MAM.

Asst. Professor.

Department of Zoology,

Zoology,

Adarsh College, Hingoli

Hingoli



Dr. SALVE B.S. Sir.

Head of Department

Department of

Adarsh College,

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College
HINGOLI - 431 513



INDEX

SR. No.	PARTICULARS	PAGE NO.
1	ABSTRACT	
2	STUDY AREA	
3	INTRODUCTION	
4	MATERIALS AND METHOD	
5	RESULTS AND DISCUSSIONS	
6	CONCLUSION	
7	REFERENCE	

A PROJECT WORK



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

Submitted to

**Swami Ramanand Teerth Marathwada University
Nanded**

Submitted by

**Miss.Pooja Ramesh Dalve
Msc S.Y zoology
Adarsh college, Hingoli
Under the guidance of**

Dr.P..PATODE MAM

**Associate professor
Adarsh college Hingoli,**

(2022-2023)

CERTIFICATE

This is to certify that project entitled 'ECONOMIC IMPORTANCE OF APICULTURE' Submitted for the award of degree of master of science in zoology to university Swami Ramanand Teerth Marathwada University Nanded is record of bonafied of research carried out by Miss.POOJA RAMESH DALVE msc zoology second year research and Postgraduate department of zoology adarsh college Hingoli 431513.Under my guidance and supervision the Matter presented in project has not been submitted previously



Dr. P.Patode Mam
Asst.prof



Dr. B .S. Salve
H.O.D zoology

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science Coll.
HINGOLI - 431 513

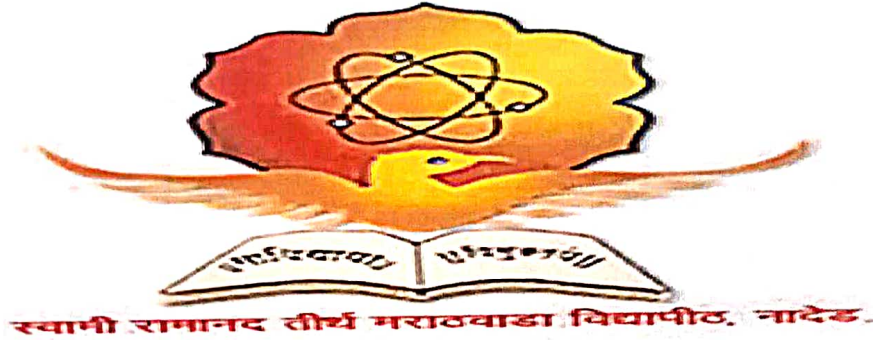


INDEX

Sr.no	Topic name	Page.no
1	<u>Abstract</u>	
2	<u>Introduction</u>	
3	<u>Material & Method</u>	
4	<u>Result & Discussion</u>	
5	<u>Reference</u>	

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

A PROJECT WORK



Dissertation on

“ADVANCED PRACTICES IN SERICULTURE”

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

In Partial fulfilment of the requirement
for the Degree of Master of Science in Zoology

SUBMITTED BY

MS.GAYATRI PURUSHOTTAM DESHMUKH

M.Sc. Second Year (Zoology)

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431517

UNDER THE GUIDANCE OF

MS. BORKAR MADAM

ASSOCIATE PROFESSOR

PG DEPARTMENT OF ZOOLOGY

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431513

(2023-2024)

CERTIFICATE

This to certify that the project entitled, **ADVANCED PRACTICES IN SERICULTURE**” submitted for the award of degree of Master of Science in Zoology to Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafide research carried out by Ms. **GAYATRI PURUSHOTTAM DESHMUKH, M. Sc. Second Year, Post Graduate Department of Zoology, Adarsh College, HINGOLI, Dist. Hingoli- 431517** under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.



MS. M. BORKAR MADAM
Ass. Prof. Dept of Zoology



Dr. B. S Salve Sir
Head & Professor
PG dept of zoology
Adarsh college, Hingoli
431513

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science
HINGOLI - 431513

CONTENTS

Serial No.	Name of contents	Page No.
1.	Title	6
2.	Abstract	7
3.	Introduction	9
4.	Methods	36
5.	Observation & Result	41
6.	Conclusion	42
7.	Discussion	43
8.	Reference	45

project

"Effect of contamination of Fresh water fishes "



Submitted to

Swami Ramanand Teerth Marathwada University Nanded

Submitted by

Miss Dipali sudhirrao Doiphode

Msc S.Y zoology

Adarsh college, Hingoli

Under the guidance of

Dr. P.PJoshi sir

Associate professor

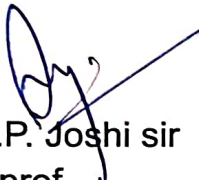
Adarsh college Hingoli,


(2022-2023)

Certificate

This is to certify that project entitled 'Effect of contamination of Fresh water fishes '

Submitted for the award of degree of master of science in zoology to university Swami Ramanand Teerth Marathwada University Nanded is record of bonafied of research carried out by Miss Dipali sudhirrao Doiphode msc zoology second year research and Post graduation department of zoology adersh college Hingoli 431513. Under my guidance and supervision the Matter presented in project has not been submitted previously


Dr. P.P. Joshi sir
Asst.prof


Dr. B .S. Salve
H.O.D zoology
HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College
HINGOLI - 431 513

 , 

Index

<u>Sr . No</u>	<u>Topic</u>	<u>Page no</u>
<u>1</u>	<u>Abstract</u>	
<u>2</u>	<u>Area</u>	
<u>3</u>	<u>Introduction</u>	
<u>4</u>	<u>Material method</u>	
<u>5</u>	<u>Result</u>	
<u>6</u>	<u>Refrence</u>	

Project Work

ENTITLED



NESTING BEHAVIOUR OF BIRDS IN HINGOLI CITY

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Submitted By

Miss. Priyanka Nilkanth Gaikwad

M.Sc 2nd year

Zoology

Aadarsh Mahavidyalay Hingoli

Under The Guidance of

Dr. P.P. Joshi

Associate Professor Department of Zoology

Adarsh Mahavidyalay Hingoli

(2022 – 2023)

POST GRADUATE DEPARTMENT OF ZOOLOGY

Aadarsh Mahavidyalay Hingoli - 431513 (M.S.)

Affiliated To Swami Ramanand Teerth Marathwada University Nanded.

CERTIFICATE

This Is to Certify That Project Entitled **Nesting Behaviour of Birds in Hingoli City**. Submitted for The Award of Degree of Master of Science in Zoology to The Swami Ramanand Teerth Marathwada University Nanded Is a Record of Bonafide Research Carried Out by Mis Priyanka Nilkanth Gaikwad M.sc 2nd Year Post Graduate Department of Zoology Aadarsh Mahavidyalay Hingoli

Under my guidance and supervision, the matter presented through the project has not been submitted previously. for the award of any degree or any other similar title of this or any other University.



Dr. P.P. Joshi

Associate Professor

Department Of Zoology

Aadarsh Mahavidyalay Hingoli



Dr. B.S. Salve

Head of Department of Zoology

Department of Zoology

Aadarsh Mahavidyalay Hingoli

HEAD
Dept. of Zoology
Aadarsh Education Society's
Arts, Commerce & Science College
HINGOLI - 431 513

INDEX

SR. NO.	PARTICULAR	Page No.
1	ABSTRACT	7 - 9
2	STUDY AREA	10 - 13
3	INTRODUCTION	14 - 14
4	METHODS AND MATERIALS	15 - 17
5	WHEN DO BIRDS NESTS?	18 - 19
6	TYPES OF NESTS	20 - 25
7	BIRDS NEST DESIGN	26 - 30
8	NESTING MATERIALS	31 - 34
9	NESTING CYCLE OF BIRDS	35 - 64
10	BIRDS IN HINGOLI CITY	65 - 66
11	RESULT AND DISCUSSION	67 - 69
12	CONCLUSION AND REFERENCE	70 - 71

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

A PROJECT WORK



Dissertation on

**“STUDY OF FRESH WATER 'FISH DISEASES AND THEIR
IMPACT ON FISH PRODUCTION ”**

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

In Partial fulfilment of the requirement
for the Degree of Master of Science in Zoology

SUBMITTED BY

Mr. Ghuge Sanket Sandip

M.Sc. Second Year (Zoology)

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431517

UNDER THE GUIDANCE OF

Prof.M.S.Borkar

ASSI. PROFESSOR

PG DEPARTMENT OF ZOOLOGY

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -4315136

(2022-2023)

CERTIFICATE

This to certify that the project entitled, “ STUDY OF FRESH WATER 'FISH DISEASES AND THEIR IMPACT ON FISH PRODUCTION ” submitted for the award of degree of Master of Science in Zoology to Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafide research carried out by Mr.GhugheSanketSandip.M.Sc. Second Year, Post Graduate Department of Zoology, Adarsh College, HINGOLI, Dist. Hingoli-431517 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.

Salve
02/05/2023

Prof.M.S.Borkar
Project Supervisor

Salve

Dr. B. S. Salve
Head & Professor
PG Department of Zoology
Adarsh Education Society's
Arts, Commerce & Science
College HINGOLI -431517

Salve

CONTENTS

Serial No.	Name of contents	Page No.
1.	Abstract	6
2.	Study Area	7
3.	Introduction	8-36
4.	Fresh water fish Disease	37-40
5.	Result And Discussion	41
6.	Conclusion	42
7.	References	43-44

DB67262

A PROJECT WORK

ENTITLED

PLANKTONS AND WATER QUALITY OF GODAVARI RIVER

SUBMITTED TO



**Swami Ramanand Teerth Marathwada
University Nanded**

SUBMITTED BY

VARSHA MADHAVRAO GHYAR

M. Sc. 2nd Year

(ZOOLOGY)

UNDER THE GUIDANCE OF

PROF. P.S. PATODE MADAM

DEPARTMENT OF ZOOLOGY

ADARSH COLLEGE HINGOLI

(2022-2023)



Adarsh Education Society's
Arts, Commerce and Science College, Hingoli
Akola Road, Hingoli - 431513
NAAC Accredited by Grade B+ with CGPA 2.54
Affiliated to

Swami Ramanand Teerth Marathwada University, Nanded
(UGC Approved 2F/12B, Recognized by Govt. of Maharashtra)
ISO 9001:2015 Certified College

Date : / /2023

CERTIFICATE

This is to certify that the project entitled **PLANKTONS AND WATER QUALITY OF GODAVARI RIVER** submitted for the award of Degree of *Master of Science in Zoology* to the "**Swami Ramanand Teerth Marathwada University, Nanded**" is a record of bonafide research carried out by **VARSHA MADHAVRAO GHYAR**, M.Sc Second year, research and Post Graduate Department of Zoology, Adarsh College, Hingoli – 431513 (M S) under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title to this or any other university.

PROF. P.S. PATODE

**DEPARTMENT OF ZOOLOGY
ADARSH COLLEGE HINGOLI**

DR. B.S. SAVLE

**HEAD OF DEPARTMENT
ADARSH COLLEGE HINGOLI**

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College
HINGOLI - 431 513

INDEX

Sr. No.	Particulars	Page No.
1	Introduction	1-2
2	Material and methods	2-3
3	Relationship between physico-chemical parameters of water & phytoplankton diversity	3-4
4	Relationship between physico-chemical parameters of water & zooplankton diversity	4-6
5	Conclusion	6
6	Water quality of Godavaru River	7-8
7	Study area	8-9
8	Material & Methods	9-11
9	Results & discussion	11-13
10	Conclusions	13-15
11	Reference	16-17

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED

A PROJECT WORK



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

Dissertation on

“STUDY OF AQUATIC ANIMALS IN AROUND A LIVING
AREA”

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

In Partial fulfilment of the requirement
for the Degree of Master of Science in Zoology

SUBMITTED BY

Miss. Gore Shalini Vasantrao

M.Sc. Second Year (Zoology)

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE
COLLEGE,
HINGOLI -431513

UNDER THE GUIDANCE OF

Pradnya R. Mujmule

ASSI. PROFESSOR

PG DEPARTMENT OF ZOOLOGY
ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE
COLLEGE,
HINGOLI -431513

(2022-2023)

CERTIFICATE

This to certify that project entitled "STUDY OF AQUATIC ANIMALS IN AROUND A LIVING AREA" submitted for the award of degree of Master of Zoology to Swami Ramanand Teerth Marathwada University, Nanded. Is a record of bonafide research carried out by Miss. **GORE SHALINI VASANTRAO** , M. Sc. Second Year, Research and Post Graduate Department of Zoology , Adarsh Education Society's Arts, Commerce & Science College, Hingoli-431513 under my guidance and supervision. The matter presented to the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.



Miss. Pradnya Mujmule

Project Supervisor

Department Of Zoology

Adarsh Mahavidhyalaya, Hingoli



Dr. B. S. Salve

Professor

Head Of Department

Department Of Zoology

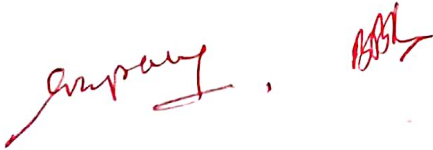
Adarsh Mahavidhyalaya, Hingoli

HEAD

Dept. of Zoology

Adarsh Education Society's
Arts, Commerce & Science College

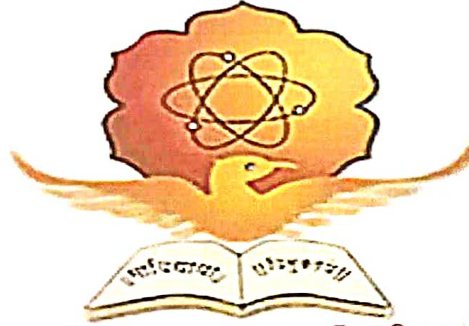
HINGOLI - 431 513



INDEX

S.N	PERTICULARS	PAGE NO
1.	ABSTRACT	1
2.	STUDY AREA	2
3.	MATERIALS AND METHODS	3-4
4.	INTRODUCTION	5-22
5.	CONCLUSION AND DISSCUTION	23-24
6.	RESULTS	25
7.	REFERENCE	26-27

**A PROJECT WORK
ENTITLED
Biodiversity of Animal**



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

**Swami Ramanand Teerth Marathwada
University, Nanded**

- SUBMITTED BY -

RANI SANJAY INGOLE

M.Sc. 2nd Year

(ZOOLOGY)

**UNDER THE GUIDANCE OF
Prof. Pradhnya Mujmule Madam**

DEPARTMENT OF ZOOLOGY

ADARSH COLLEGE HINGOLI.

(2022-2023)

Date / /2023

CERTIFICATE

This is to certify that the project entitled **Project work entitled Biodiversity of Animal** submitted for the award of Degree of **Master of Science in Zoology** to the "Swami Ramanand Teerth Marathwada University, Nanded" is a record of bonafide research carried out by **Rani Sanjay Ingole, M.Sc. 2nd Year,** research and Post Graduate Department of Zoology, Adarsh College, Hingoli-431513 (M.S.) Under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any degree or any other similar title to this or any other university.


PROF. MUJMULE P.

DEPARTMENT OF ZOOLOGY
ADARSH COLLEGE HINGOLI


DR. B.S.SAVALE

HEAD OF DEPARTMENT
ADARSH COLLEGE, HINGOLI
HEAD

Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College

HINGOLI - 431 513



BY

MISS. SHITAL LAXMAN INGOLE

Under The Guidance Of

Mrs. Pradnya Mujmule

Prof. Department of Zoology,

Swami Ramanand teerth marathwada university nanded

Department of Zoology
Swami Ramanand teerth marathwada university nanded

CERTIFICATE

This is certify that **MISS. SHITAL LAXMAN INGOLE**
has satisfactorily completed the projectwork entitled, "Study of
various fish by products and economic important in Ramanand teerth
marathwada university nanded " for partialfulfilment of M.Sc.
degree in Zoology by Swami Ramanand teerth marathwada university
nanded during the academic year 2022-2023.

empoy I, B.S.S.

Pradnya Mujmule

Mrs. Pradnya Mujmule

Project In charge

Dept. of Zoology,

Head of department

B.S.S.

Dr. B. S. Salve

Dept. of Zoology, Dr. B.A.M.U,
Aurangabad

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College
HINGOLI - 431 513

INDEX

SR.NO	NAME	PAGE NO
1	INTRODUCTION	7
2	FISH PROCESSING PLANT	9
3	FISH BYPRODUCTS	12
4	IMPORTANCE	19
5	REFERENCES	20

A PROJECT WORK

ENTITLED



“FISH DIVERSITY OF BHIMA RIVER”

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA

UNIVERSITY NANDED

SUBMITTED BY

MISS. JOJAR ASHA BALAJI

M.Sc. S.Y. ZOOLOGY

ADARSH EDUCATION SOCIETY'S ART'S, COMMERCE &

SCIENCE COLLEGE HINGOLI

UNDER THE GUIDANCE OF

DR. B.S. SALVE SIR

PROFESSOR & H.O.D.

DEPARTMENT OF ZOOLOGY ADARSH FOLLEGE HINGOLI

2022-2023

CERTIFICATE

This is to certificate that the project entitled ``fish Diversity of Bhima River`` Submitted for the award of Degree of master of science in zoology to the swami Ramanand Teerth Marathawada University, Nanded is a record of bonafied research carried out by

Miss . Jojar Asha Balaji M.Sc. second year research and post Graduate Department of Zoology, Adarsh College, Hingoli under my guidance and supervision. The matter presented Through the project has not been submitted previously for the Award of any Degree or and other similar little to this or any other University.



Dr.B.S. Salve sir

Project Supervisor



Dr.B.S. Salve sir

Professor &HOD

Department of Zoology

Adarsh College, Hingoli

HEAD

Dept. of Zoology

Adarsh Education Society's
Arts, Commerce & Science College

HINGOLI - 431 513



INDEX

PARTICULARS	PAGE NO	
ABSTRACT	01	
INTRODUCTION	02	
STUDY AREA	04	
METHODOLOGY	05	
FAMILY DETAILS		
RESULT AND DISCUSSIONS	06	
THREATS		
CONCLUSION	24	
REFERENCE	25	

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

A PROJECT WORK



Dissertation on

**“DIVERSITY OF FRESHWATER AQUATIC ANIMALS IN
SIDDHESHWAR DAM”**

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

In Partial fulfilment of the requirement
for the Degree of Master of Science in Zoology

SUBMITTED BY

MS. KADAM DIVYA YASHVANTRAO

M.Sc. Second Year (Zoology)

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431517

UNDER THE GUIDANCE OF

Dr. P. P. Joshi

ASSOCIATE PROFESSOR


PG DEPARTMENT OF ZOOLOGY


ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431513



(2022-2023)

CERTIFICATE

This to certify that the project entitled, "DIVERSITY OF FRESHWATER AQUATIC ANIMALS IN SIDDHESHWAR DAM" submitted for the award of degree of Master of Science in Zoology to Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafide research carried out by Ms. DIVYA YASHVANTRAO KADAM, M. Sc. Second Year, Post Graduate Department of Zoology, Adarsh College, HINGOLI, Dist. Hingoli-431517 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.


Dr. P. P. Joshi
Project Supervisor


Dr. B. S. Salve
Head & Professor
PG Department of Zoology
Adarsh Education Society's
Arts, Commerce & Science
College,
HINGOLI -431517



HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College
HINGOLI - 431 513

Serial No.	Name of contents	Page No.
1.	Introduction	6
2.	Review of Literature	7
3.	Aim and Objective	7
4.	Material and Methods	8-15
5.	Pictographic Locations	16
6.	Result	18
7.	Conclusion	19
8	References	20-21

Introduction

The Siddheshwar dam is an Earth fill dam on Purna river which is a tributary of River Godavari. This dam is located in the North Western part of Aundha nagnath in the Hingoli

**SWAMIRAMANAD TEERTH MARATHAWADA.
UNIVERSITY NANED.**

A PROJECT REPORT ON

**Study of Nesting Behaviour Pattern of Bird in AnAround Hingoli
District**

SUBMITTED BY

MR. Kamble Tukaram
prakashMSC.sec..YEAR.
(ZOOLOGY)

UNDER THE GUIDANCE OF

Dr. SALVE B.S. Sir.

SUBMITTED TO

DEPARTEMENT OF ZOOLOGY
ADARSH EDUCATION SOCIETY'S ARTS, COMERCE AND
HINGOLI-431513
SCIENCE COLLEGE, (2022-2023)

CERTIFICATE

This is to certify that the project entitled, "Study of Nesting Behaviour Pattern of Bird in An Around Hingoli" submitted for the award of Degree of Master of Science in zoology to the Swami Ramanand Marathwada University, Nanded is record of bonafied research carried out by Mr. Kamble Tukaram Prakash MSC. Second. Year, research and Post Graduate Department of Zoology, Adarsh College, Hingoli 431513 (M.S) under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar titled to this or any other university.



Dr. SALVE B.S. Sir.

Head of Department Department

of Zoology,

Adarsh College, Hingoli

HEAD

Dept. of Zoology

Adarsh Education Society's
Arts, Commerce & Science College

HINGOLI - 431 513

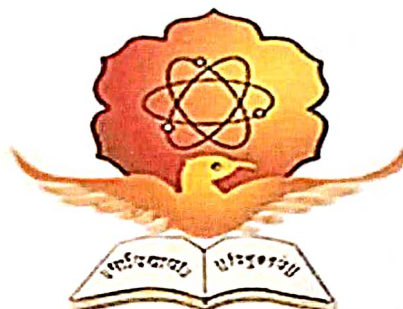
Impung

BSL

INDEX		
1	ABSTRACT	
2	STUDY AREA	
3	INTRODUCTION	
5	MATERIALS AND	
6	METHOD	
7	RESULTS AND DISCUSSIONS	
8	CONCLUSION REFERENCE	

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

A PROJECT WORK



स्वाामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

Dissertation on

“STUDY OF BIRDS FEATHERS PATTERNS”

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**In Partial fulfilment of the requirement
for the Degree of Master of Science in Zoology**

SUBMITTED BY

Miss. Kawane Nikita Vilas

M.Sc. Second Year (Zoology)

**ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE
COLLEGE,
HINGOLI -431513**

UNDER THE GUIDANCE OF

Manisha S. Borkar

ASSI. PROFESSOR

PG DEPARTMENT OF ZOOLOGY

**ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE
COLLEGE,
HINGOLI -431513**

(2022-2023)

CERTIFICATE

This to certify that project entitled "STUDY OF BIRDS FEATHERS PATTERNS" submitted for the award of degree of Master of Zoology to Swami Ramanand Teerth Marathwada University, Nanded. Is a record of bonafide research carried out by Miss. **NIKITA VILAS KAWANE**, M. Sc. Second Year, Research and Post Graduate Department of Zoology , Adarsh Education Society's Arts, Commerce & Science College, Hingoli-431513 under my guidance and supervision. The matter presented to the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.



Miss. Manisha Borkar

Project Supervisor

Department Of Zoology

Adarsh Mahavidhyalaya, Hingoli



Dr. B. S. Salve

Professor

Head Of Department

Department Of Zoology

Adarsh Mahavidhyalaya, Hingoli

HEAD

Dept. of Zoology

Adarsh Education Society's
Arts, Commerce & Science College

HINGOLI - 431 513



INDEX

S.N	PARTICULARS	PAGE NO
1.	ABSTRACT	1
2	STUDY AREA	2-3
3	MATERIALS AND METHODS	4
4	INTRODUCTION	5-21
5	CONCLUSION AND DISSCUSION	22
6	RESULTS	23
7	REFERENCE	24-25

A PROJECT WORK



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

Dissertation on

“STUDY OF MODERN PRATICE OF APICULTURE”

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

In Partial fulfilment of the requirement
for the Degree of Master of Science in Zoology

SUBMITTED BY

Mr.Sanket Siddharth kawane

M.Sc. Second Year (Zoology)

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431513

UNDER THE GUIDANCE OF

Pankaj R.Khandare

ASSI. PROFESSOR

PG DEPARTMENT OF ZOOLOGY


ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431513

(2022-2023)

CERTIFICATE

This to certify that project entitled "STUDY OF MODERN PRACTICES IN APICULTURE" submitted for the award of degree of Master of Zoology to Swami Ramanand Teerth Marathwada University, Nanded. Is a record of bonafide research carried out by Mr **SANKET SIDDHARTH KAWANE** M.Sc. Second Year, Research and Post Graduate Department of Zoology, Adarsh Education Society's Arts, Commerce & Science College, Hingoli-431513 under my guidance and supervision. The matter presented to the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.

Mr. P. R. Khandare
Project Supervisor
Department Of Zoology
Adarsh Mahavidhyalaya, Hingoli


Dr. B. S. Salve
Professor
Head Of Department
Department Of Zoology
Adarsh Mahavidhyalaya, Hingoli

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College
HINGOLI - 431 513




INDEX

S.N	PERTICULARS	PAGE NO
1.	ABSTRACT	
2.	STUDY AREA	
3.	MATERIALS AND METHODS	
4.	INTRODUCTION	
5.	CONCLUSION AND DISSCUTION	
6.	RESULTS	
7.	REFERENCE	

A PROJECT WORK

ENTITLED



"AQUATIC ECOSYSTEM OF CHIRAG-SHAH DARGA LAKE"

SUBMITTED TO

SWAMI RAMANAD TEERTH MARATHWADA UNIVERSITY NANDED

SUMMITTED BY

MISS.KHOKLE VARSHA BHAGWAN

M.SC II YEAR

(ZOOLOGY)

ADARSH MAHAVIDYALAYA HINGOLI

UNDER THE GUIDANCE OF

DR .M.S.BORKAR

ASST.PROFESSOR DEPARTMENT OF ZOOLOGY

ADARSH MAHAVIDYALAYA HINGOLI DEPARTMENT OF ZOOLOGY

(2022-2023)

RESEARCH AND POST GRADUAT DEPARTMENT OF ZOOLOGY .

ADARSH MAHAVIDYALAYA ,HINGOLI

AKOLA ROAD HINGOLI 431513.M.S.(INDIA)

(Affiliated to swami ramanand teerth marathwada university,nanded)

(NAAC Re-accredited with B+ grade)

COLLEGE WITH POTENTIAL FOR EXCELLENCE UGC STATUS

Establishment year :-june 1967.

CERTIFICATE

This is to certify that the project entitld "**STUDY OF AQUATIC ECOSYSTEM OF CHIRAG SHAH DARGA**" sumited for the award of Dgree of Master of science in zoology to the **Swami Ramanand Teerth Marathwada University NANDED**.is a recorded of bonafide research carried out by Miss .**KHOKLE VARSHA BHAGWAN ,M.sc** second year, Research and post Graduate Department of zoology ,**ADARSH MAHAVIDYALAYA ,HINGOLI-431513.(m.s)** under my guidance and supervision.

The matter present through the project has not been summited previously for the award of any Degree or any other similar title to this or any other university.

Dr M S BORKAR

Asst.Prof, Department of zoology

Adarsh mahavidyalaya hingoli

Dr B S SALVE.

Head of Department

Department of zoology

Adarsh mahavidyalaya hingoli.

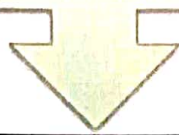
HEAD

Dept. of Zoology

Adarsh Education Society's
Arts, Commerce & Science College

HINGOLI - 431513

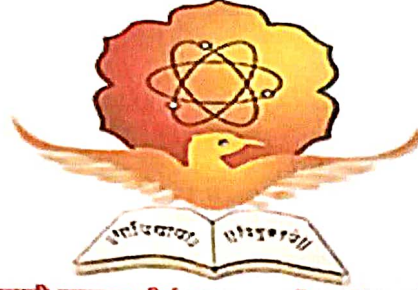
INDEX



NO	PARTICULARS	PAGE NO
1	ABSTRACT	
2	STUDY OF AREA	
3	INTRODUCTION	
4	MATERIALS AND METHODS	
5	RESULT AND DISCUSSIONS	
6	REFERENCE	

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

A PROJECT WORK



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

Dissertation on

“BIODIVERSITY OF LADY BITTLE IN HINGOLI DISTRICT ”

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

In Partial fulfilment of the requirement
for the Degree of Master of Science in Zoology

SUBMITTED BY

Mr.Korde Ganesh Subhash

M.Sc. Second Year (Zoology)

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431517

UNDER THE GUIDANCE OF

Prof.M.S.Borkar

ASSI. PROFESSOR

PG DEPARTMENT OF ZOOLOGY

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431513


(2022-2023)

CERTIFICATE

This to certify that the project entitled, "BIODIVERSITY OF LADY BITTLE IN HINGOLI DISTRICT " submitted for the award of degree of Master of Science in Zoology to Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafide research carried out by Mr.Korde Ganesh Subhash, M. Sc. Second Year, Post Graduate Department of Zoology, Adarsh College, HINGOLI, Dist. Hingoli- 431517 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.


01/04/2023
Prof.M.S.Borkar
Project Supervisor

 , 


Dr. B. S. Salve
Head & Professor
PG Department of Zoology
Adarsh Education Society's
Arts, Commerce & Science
College HINGOLI -431517

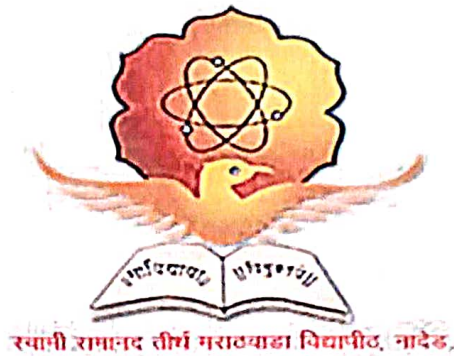
HEAD
Dept. of Zoology
Adarsh Education Society's
Arts Commerce & Science College
HINGOLI -431 513

CONTENTS

Serial No.	Name of contents	Page No.
1.	Abstract	6
2.	Study Area	7
3.	Introduction	8-36
4.	Classification	37-40
5.	Biodiversity of lady bittle	
6.	Result And Discussion	41
7.	Conclusion	42
8.	References	43-44

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

A PROJECT WORK



Dissertation on

“ IMPACT OF HEVY METAL IN FISH PRODUCTION ”

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

In Partial fulfilment of the requirement
for the Degree of Master of Science in Zoology

SUBMITTED BY

MS. ANKITA SHANKAR KURWADE

M.Sc. Second Year (Zoology)

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431517

UNDER THE GUIDANCE OF

PRIYANKA PATODE MAM

ASSOCIATE PROFESSOR

PG DEPARTMENT OF ZOOLOGY

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431513

(2022-2023)

CERTIFICATE

This to certify that the project entitled, " **IMPACT OF HEVY METAL ON FISH PRODUCTION** " submitted for the award of degree of Master of Science in Zoology to Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafide research carried out by **MS. ANKITA SHANKAR KURWADE** , M. Sc. Second Year, Post Graduate Department of Zoology, Adarsh College, HINGOLI, Dist. Hingoli- 431517 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.

Patode

PRIYANKA PATODE MAM

Project Supervisor

B. S. Salve

Dr. B. S. Salve

Head & Professor

PG Department of Zoology
Adarsh Education Society's

Arts, Commerce & Science

College,

HINGOLI -431517

HEAD

Dept. of Zoology

Adarsh Education Society's
Arts, Commerce & Science College

HINGOLI - 431 513

empary
B.S.

CONTENTS

Serial No.	Name of contents	Page No.
1.	Introduction	6
2.	Review of Literature	7
3.	Material and Methods	8-36
4.	Observations and Result	37-40
5.	Discussion	41
6.	Conclusion	42
7.	References	43-44

11NO: 7573

Exam seat NO:- DB6727S

COLLECTION INFORMATION ABOUT BIRDS
FROM SURROUNDNG AREA

-: SUBMITTED BY:-

Miss. Lonkar Mansi Ramesh

M.Sc. II YEAR
(ZOOLOGY)

-: GUIDED BY:-

Prof.P.S.Patode
Assistant Professor

P.G. Dept. Of Zoology

Adarsh College, Hingoli

Dist. Hingoli (431513), Maharashtra



DEPARTMENT OF ZOOLOGY

Adarsh College, Hingoli. Dist. Hingoli (431513), Maharashtra

2022-2023



Swami Ramanand Teerth Marathwada University, Nanded

Adarsh College, Hingoli.

Department of Zoology

CERTIFICATE

This is to certify that,

This is to certify that the project entitled, "COLLECTION INFORMATION ABOUT BIRDS FROM SURROUNDING AREA" submitted for the award of Degree of Master of Science in Zoology to the Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafide research carried out by Miss. LONKAR MANSI RAMESH, M. Sc. Second Year, Research and Post Graduate Department of Zoology, Adarsh College, Hingoli - 431513 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title to this or any other university.

Date: / /2023

Place: Hingoli

Prof. P.S. Patode
Asst. Professor
Department of Zoology
Adarsh College, Hingoli

Dr. B.S. Salve
Head Of
Department of Zoology
Adarsh College, Hingoli

HEAD
Dept. of Zoology

Adarsh Education Society's
Arts, Commerce & Science College

HINGOLI - 431 513

INDEX

Sr. No.	Particular	Page No.
1	Abstract	1
2	Study Area	2
3	Introduction	6
4	Material and Method	26
5	Result and Discussion	28
6	Conclusion	29
7	Reference	30

**A PROJECT WORK
ENTITLED**



**“ STUDY OF DIFFERENTIAL FISH PRESEVATION METHODS IN
LOCAL AREA”**

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED

SUBMITTED BY

M.Sc.II YEAR

(ZOOLOGY)

ADARSH COLLEGE, HINGOLI

UNDER THE GUIDANCE OF

Professor : P.R. KHANDARE

ASSISTANT PROFESSOR

DEPARTMENT OF ZOOLOGY

ADARSH COLLEGE HINGOLI

(2022-2023)

RESEARCH AND POST GRADUATE DEPARTMENT OF ZOOLOGY, ADARSH
COLLEGE HINGOLI

Akola road, Hingoli - 431513

M.s.India

(Affiliated to swami Ramanand Teerth Marathwada University, Nanded)

(Accredited byt NAAC, Bangalore at level 'A' college

COLLEGE with POTENTIAL FOR EXCELLENCE - A UGC Status


Establishment Year : 1963

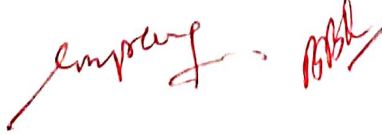
Date :

CERTIFICATE

This is to certify that the project entitled, "STUDY OF DIFFERENTIAL FISH
PRESEVATION METHODS IN LOCAL AREA" submitted for the award of degree of Master
fo science in zoology to the swami ramanand teerth Marathwada University, Nanded is
a record of bonatide research carried out by Miss. M.Sc second Year, Research and
post Graduate Department of zoology, Adarsh College Hingoli - 431513 (Miss) Naik
Priyanka Ramesh Under my guidance and supervision. The matter present through the
project has not be submitted previously for the award of any Degree or any other
similar title to this or any other university

Professor: P.R.Khandare
Ast. Professor.
Department of Zoology
Adarsh College Hingoli


Dr. B.S.Salve
Head of
Department of zoology
Adarsh College Hingoli


HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerr & Science College,
HINGOLI - 431 513

INDEX

SR.NO.	PARTICULARS	PAGE NO.
1	Abstract	1
2	Study area	2
3	Introduction	3-4
4	Fish Preservation	5-19
5	Processing of Fish	20-26
6	Conclusion	27
7	Reference	28

Project Report On

DB67277

**To Study The Various Fish-by-Product and
Economic Important**

Submitted To.

Swami Ramanand Teerth Marathawada University

Nanded



Under The Guidance Of

Prof. P.R. Mujmule

Ass. professor

Department Of Zoology

Adrash College Hingoli

(2022-2023)

Submitted By

Miss. Nehul Devkanya Laxman

1. SC II Year (Zoology) Sem -IV

INDEX

SR.NO	NAME OF THE CONTENTS	PAGE NO.
1.	INTRODUCTION.	1
2.	FISH BY PRODUCT	7 - 26
3.	ECONOMIC IMPORTANCE	27 - 31
4.	REFERENCE.	32

seat no - DB67278

Roll no. 7576.

DIVERSITY OF ANY INSECTS FROM DIFFERENT
AREA OF YOUR LOCALITY

-: SUBMITTED BY:-

Miss. Patole Priyanka Pandita

M.Sc. II YEAR

(ZOOLOGY)

-: GUIDED BY:-

Prof.M.R. Borkar

Assistant Professor

P.G. Dept. Of Zoology

Adarsh College, Hingoli

Dist. Hingoli (431513), Maharashtra



ऐतरे ते शास्त्रं । पवित्रं च विद्याम् ॥
ज्ञेयं विदित्वा त्वं मया । कोल्य कीर्ते ॥

DEPARTMENT OF ZOOLOGY

Adarsh College, Hingoli. Dist. Hingoli (431513), Maharashtra

2022-2023



Swami Ramanand Teerth Marathwada University, Nanded

Adarsh College, Hingoli.

Department of Zoology



CERTIFICATE



This is to certify that,

This is to certify that the project entitled, "DIVERSITY OF ANY INSECTS FROM DIFFERERNT AREA OF YOUR LOCALITY" submitted for the award of Degree of Master of Science in Zoology to the Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafide research carried out by Miss. Patole Priyanka Pandita, M. Sc. Second Year, Research and Post Graduate Department of Zoology, Adarsh College, Hingoli - 431513 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title to this or any other university.

Date: / /2023

Place: Hingoli



Prof. M. B. Borkar
Asst. Professor
Department of Zoology
Adarsh College, Hingoli



Dr. B.S. Salve
Head Of
Department of Zoology
Adarsh College, Hingoli

HEAD
Dept. of Zoology

Adarsh Education Society's
Arts, Commerce & Science College
HINGOLI - 431 513

INDEX

Sr. No.	Particular	Page No.
1	Abstract	1
2	Study Area	2
3	Introduction	3
4	Material and Method	28
6	Conclusion	29
7	Reference	30

A PROJECT WORK



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

**“ study on differential fish pond
management”**

**SUBMITTED TO
SWAMI RAMANAND TEERTH MAHARASHTRA
UNIVERSITY, NADED**

**SUBMITTED BY
MISS. PRIYA RAJENDRA PATRE**

M.Sc. Second Year (Zoology) ADARSH COLLEGE HINGOLI.

**UNDER THE GUIDENCE OF
PROF. M. S. BORKAR**

ASSOCIATE PROFESSOR

**PG DEPARTMENT OF ZOOLOGY
ADARSH COLLEGE HINGOLI – 431513 (2022-2023)**

CERTIFICATE

This to certify that the project entitled, " **STUDY ON DIFFERENTIAL FISH POND MANAGEMENT**" submitted for the award of degree of Master of Science in Zoology to Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafied research carried out by **MISS. PRIYA RAJENDRA PATRE**, M.Sc. Second Year, Post Graduate Department Of Zoology, Adarsh College, Hingoli, Dist Hingoli,-431513 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.



Prof. M. S. Borkar
Project supervisor



DR. B. S. Salve
Head and professor
PG Department of Zoology
Adarsha Education Society's
Arts, Commerce & Science
College, HINGOLI- 431513

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College
HINGOLI - 431 513

INDEX

<u>SR. NO.</u>	<u>PARTICULARS</u>	<u>PAGE NO.</u>
1	ABSTRACT	1 TO 2
2	STUDY AREA	3 TO 4
3	MORPHOMETRY OF THE	5 TO 6
4	INTRODUCTION	7 TO 12
5	MATERIALS AND METHODS	13 TO 20
6	RESULTS AND DISCUSSIONS	21 TO 25
7	CONCLUSION	26 TO 27
8	REFERENCE	28 TO 29



PROJECT WORK ENTITLED

PROJECT REPORT IS APICULTURE

SUBMITTED TO

**Swami Ramanand Teerth Marathwada
University, Nanded**

SUBMITTED BY

NAGESH SHANKARRAO SAVALE

M.SC2nd YEAR

Exam Seat No.

CERTIFICATE

This is to certify that the project entitle APICULTURE Submitted for the award of degree Master of Science in Zoology to the **Swami Ramanand Tirtha Marathwada University, Nanded** is a record of Bonafide research carried out by **Mr. Nagesh shankarrao savale** , M.Sc 2^{na} year. Research and Post Graduate Department Of Zoology Aadrash Education Society Hingoli 431513 (M.S) under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any degree Or any other similar title to this or any other University.

emping. *B.B.*

h

HEAD OF DEPARTMENT

Dr. Salve Sir

**Assitant profeshar
khandare sir**

HEAD
Dept. of Zoology
Adarsh Education Society's
Commerce & Science College
HINGOLI - 431 513

INTRODUCTION...

Apiculture or beekeeping can be considered as one of the agriculture's sub directions, where Precision Agriculture (PA) methods (Berckmans, 2006; Mancuso and Bustaffa, 2006; Proffitt et al., 2006; Morais et al., 2008; López Riquelme et al., 2009b; a) can be successfully used. This paper is devoted to the Precision Apiculture scientific direction which is based on Precision Agriculture methods and definitions.

Practical application of Precision Apiculture methods can increase the efficiency of beekeeping and, by integrating information technologies into the beekeeping process, could bring it to the next technological level.

One of the main objectives of Precision Apiculture is to develop real time and on-line tools to continuously monitor bee colonies during their life and production stage using the automatic, automated and information technology based solutions, without exposing the bees to avoidable stress and waste of resources. The aim of all these technical tools is not to replace but rather to support the beekeeper that always remains the crucial factor in good bee's anagement. Precision agriculture approach is adapted for beekeeping based on the continuous measurements of individual bee colonies all year round thus detecting different states of colonies and apiaries more generally enabling rapid reaction by the beekeeper in case of necessity.



Entitled

“ Study of commercially important fishes from Chiragshah lake, Hingoli ”

Submitted to

Swami Ramanand Teerth Marathwada University, Nanded

Submitted by

Miss. Shaikh Shagufta Umar

M.Sc. II Year

(Zoology)

Adarsh College, Hingoli

Under the guidance of

Pradnya Mujmule madam

Assistant Professor

Department of Zoology

Adarsh College, Hingoli



(2022 – 2023)

CERTIFICATE

This is to certify that the project entitled

“ STUDY OF COMMERCIALY IMPORTANT FISHES FROM CHIRAGSHAH LAKE, HINGOLI”

submitted for the award of degree of master of science in Zoology.

The Swami Ramanand Teerth Marathwada University Nanded is record of bonafide research carried out by **Miss. Shaikh Shagufta Umar** , M.Sc second year, research and post graduate department of zoology, Adarsh College Hingoli-431513 under guidance and supervision.

The matter through the project has not been submitted previously for the award of any degree or other similar title to this or any other university.

Pradnya Mujmule
28/04/2023

Pradnya Mujmule madam

Asst. Professor

Department of Zoology,

Adarsh College, Hingoli.

Shagufta Umar
BBK

B. S. Salve

Dr. B. S. Salve Sir

Head of Department

Department of Zoology,

Adarsh College, Hingoli.

HEAD

Dept. of Zoology

Adarsh Education Society's
Arts, Commerce & Science College

HINGOLI-431513

Index

Sr. No.	Particulars	Page no.
1	Title	7
2	Abstract	8
3	Introduction	10
4	Methods and Materials	11
5	Discussion	28
6	Result/Conclusion	29
7	Reference	30

A PROJECT WORK

ENTITLED



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

“STUDY OF MEDICINAL USE OF FISH”

**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY NANDED**

SUBMITTED BY

MISS. KOMAL KULBHUSHAN SONTAKKE

M.Sc. II YEAR

(ZOOLOGY)

ADARSH EDUCATION SOCIETY, HINGOLI

UNDER THE GUIDANCE OF

Prof. P. R. MUJMULE

Date:24/04/2023

CERTIFICATE

This is to certify that the project entitled, "STUDY OF MEDICINAL USE OF FISH" submitted for the award of Degree of Master of Science in Zoology to the Swami Ramanand Teerth Marathwada University Nanded is a record of bonafied reserch carried out by Miss. SONTAKKE KOMAL KULBHUSHAN , M.Sc. Second Year, Research and Post Graduate Department of Zoology, Adarsh College, Hingoli – 431513 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title to this or any university.

Mujmule

P. R. MUJMULE

Pro. Of Zoology

Department Of Zoology

Adarsh College Hingoli

B.S. Salve

Dr. B. S. Salve

Head of Department

Department Zoology

Adarsh College, Hingoli

HEAD

Dept. of Zoology

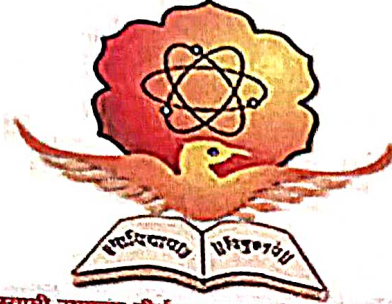
Adarsh Education Society's
Arts, Commerce & Science College

HINGOLI - 431 513

SR. NO.	PARTICULARS	PAGE NO.
1	ABSTRACT	
2	INTRODUCTION	
3	STUDY OF VALUATION OF FISH	
4	RESULT	
5	CONCLUSION	
6	REFERANCE	

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

A PROJECT WORK



Dissertation on

**“EFFECT OF HEAVY METALS CONTAMINATED WATER
ON FISHES”**

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

In Partial fulfilment of the requirement
for the Degree of Master of Science in Zoology

SUBMITTED BY

MS. VIDHYA ASHOK SURYAWANSHI

M.Sc. Second Year (Zoology)

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431517

UNDER THE GUIDANCE OF

Dr. P. R. KHANDARE

ASSOCIATE PROFESSOR

PG DEPARTMENT OF ZOOLOGY

ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE & SCIENCE COLLEGE,
HINGOLI -431513

(2022-2023)

CERTIFICATE

This to certify that the project entitled, "EFFECT OF HEAVY METAL ON CONTAMINATED WATER ON FISHES" submitted for the award of degree of Master of Science in Zoology to Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafide research carried out by Ms. VIDHYA ASHOK SURYAWANSHI, M. Sc. Second Year, Post Graduate Department of Zoology, Adarsh College, HINGOLI, Dist. Hingoli- 431513 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any Degree or any other similar title on this any other University.

Dr. P. R. KHANDARE
Project Supervisor

empang

PRK

B.S.

Dr. B. S. SALVE
Head & Professor
PG Department of Zoology
Adarsh Education Society's
Arts, Commerce & Science
College,
HINGOLI, 431517
HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College
HINGOLI - 431 513

CONTENTS

Serial No.	Name of contents	Page No.
1.	Introduction	6-8
2.	Source of Heavy Metals Pollution	9
3.	Bioaccumulation of Heavy Metals	11-12
4.	Heavy Metal Detection	12-13
5.	Hazard of Heavy Metals	14-21
6.	Conclusion	22
7.	References	23-24

A PROJECT WORK

ENTITLED



“SNAKE DIVERSITY IN AN AROUND HINGOLI CITY”

SUBMITTED TO

SWAMI RAMANAND TEERTH MARATHWADA

UNIVERSITY NANDED

SUBMITTED BY

MS. SHEETAL PANJABRAO THITE

M.Sc. Second Year (Zoology)

A.E.S. COLLEGE, HINGOLI -431517

UNDER THE GUIDANCE OF

Dr. P. P. Joshi

ASSISTANT PROFESSOR

PG DEPARTMENT OF ZOOLOGY

A.E.S. COLLEGE, HINGOLI

(2022-2023)

CERTIFICATE

This is to certify that the project entitled, "THE SNAKE DIVERSITY IN AN AROUND HINGOLI CITY." Submitted for the award of Degree of master of science in zoology to the Swami Ramanand Teerth Marathwada University, Nanded is a record of bonafide research carried out by Miss Thite Sheetal Panjabrao, Msc second year Research and Post Graduate Department of zoology, A.E.S. college, Hingoli – 431513 under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any degree or any other similar title to this or any other University.



Dr.P.P. Joshi
Asst. Professor

Department of zoology

A.E.S college, Hingoli



Dr.B.S. salve
Head of department

Department Of zoology

A.E.S. college, Hingoli

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College
HINGOLI - 431 513

empay, *B.S.S.*

INDEX

Sr.No	Particulars	Page.no
1.	ABSTRACT	1
2.	INTRODUCTION	2 to 35
3.	METERIALS AND METHODS	36
4.	RESULT AND DISCUSSIONS	37
5.	CONCLUSION	38 to 39
6.	REFERENCE	40

A Project Report

On

“ADVANCE PRACTICES IN VERMICOMPOSTING”

SUBMITTED TO



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

IN THE PARTIAL FULFILLMENT OF THE DEGREE OF

MASTER OF SCIENCE

IN

ZOOLOGY

SUBMITTED BY

MS. SONAL CHHATRAPATI WAVHAL

M.Sc Second Year (Zoology)

Under The Guidance Of

MR. KHANDARE P.R.

Assistant Professor



ADARSH EDUCATION SOCIETY'S ARTS, COMMERCE AND SCIENCE
COLLEGE, HINGOLI – 431513

2022-23

Adarsh Education Society's

ARTS, COMMERCE & SCIENCE COLLEGE HINGOLI

Akola Road, Hingoli – 431 513

Affiliated to

Swami Ramanand Teerth Marathwada University, Nanded

CERTIFICATE

This is to certify that the project entitled, "*ADVANCE PRACTICES IN VERMICOMPOSTING*" submitted for the award of the Degree of Master of Science in Zoology to the **Swami Ramanand Teerth Marathwada University, Nanded** is a record of bonafide research carried out by **Miss. WAVHAL SONAL CHHATRAPATI, M.Sc. Second Year, Post Graduate Department of Zoology, Adarsh College, Hingoli – 431513(Maharashtra)** under my guidance and supervision. The matter presented through the project has not been submitted previously for the award of any degree of or any other similar title to this or any other university.

Prof. Khandare P.R.
Project Supervisor

Khandare P.R.

BBR

Dr. Salve B.S.

Dr. Salve B.S.
HOD & Professor
PG Department of Zoology
Adarsh Education Society's
Arts, Commerce & Science
College,
Hingoli - 431513

HEAD
Dept. of Zoology
Adarsh Education Society's
Arts, Commerce & Science College,
HINGOLI - 431 513

TABLE OF CONTENT

SR.NO.	TITLE	Page No.
1	ABSTRACT	1
2	INTRODUCTION	2
3	MATERIALS AND METHODS	4
4	RESULT	17
5	CONCLUSION	18
6	REFERENCES	19