

S.P.V.V.S

**G.P.PORWAL ARTS,COMMERCE AND V.V.SALIMATH
SCIENCE COLLEGE SINDAGI – 586128**

TQ : SINDAGI

DIST : VIJAYAPURA



DEPARTMENT OF ZOOLOGY

B.Sc VI SEM

STUDY TOUR REPORT

2023-2024

NAME : Varun kanchagar

SUBJECT: Zoology

CLASS : B.Sc VI sem

REG NO : U15NB21S0067

HOD

Dept. of Zoology,

G. P. Porwal Arts, Commerce & Science
College, SINDAGI, Dist. Vijayapur
SUBMITTED BY
Varun

Coordinator IQAC
G. P. PORWAL ARTS, COM &
V. V. SALIMATH Sc. College,
SINDGI-586128

Principal,

G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 224
SUBMITTED TO
Miss. Rajeshwari



UNIVERSITY NO : D15NB21S0067

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SCIENCE COLLEGE SINDAGI – 586128**

TQ : SINDAGI

DIST : VIJAYAPURA



DEPARTMENT OF ZOOLOGY

B.SC VI SEM

CERTIFICATE

2023-2024

This is to certify that Kumari/Kumar Varun
Kanchgar student of B.Sc visemester has
satisfactorily completed the Study Tour Report on the topic
Visit to Zoo in (D.S.C.) Zoology under
supervision as laid in the regulation of Rani Channamma University,
Belagavi.

DATE :

22/08/24

STAFF MEMBERS INCHARGE

[Signature]
HOD

Dept. of Zoology,

HEAD OF THE DEPARTMENT
G.P.Porwal Arts, Commerce & Science
College, SINDAGI, Dist: Vijayapur

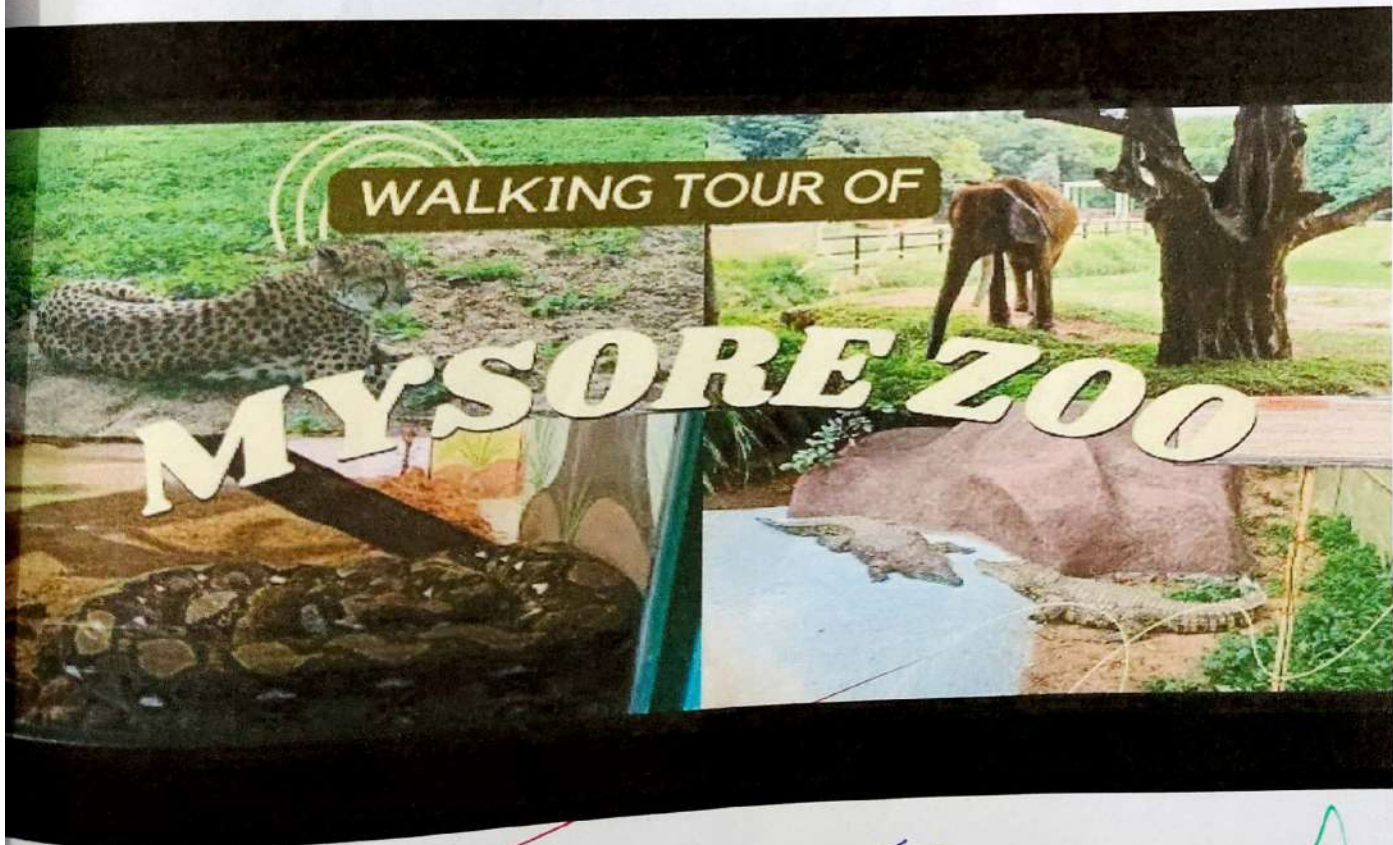
S.P.V.V.S.S

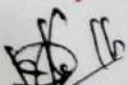
G.P.PORWAL ARTS COMMERCE AND V.V.SALIMATH
SCIENCE COLLEGE SINDAGI-586128

2023-24

Report on

Educational Tour To :- Mysuru zoo
(Sri Chamarajendra Zoological Gardens)




HOD

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Principal,

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SINDGI-586128, College Cod

Introduction

We the students of Zoology 4th semester along with the Asso professor D M Sarshetti Sir HOD zoology, Asst professor Girish Hadpad and Asst professor Miss Rajeshwari Devoor on date visited Sri chamarajendra zoo which is situated in Mysore. As it is important to study the intrinsic values of biodiversity that is worth protecting regardless of its value to humans hands we visited the zoological garden.

Preface

In past few years we have witnessed about threat to Biodiversity and destruction of wildlife due to deforestation urbanization. Some measures are taken save wildlife by establishing national parks and zoological gardens etc. Zoo animal welfare has become an increasing concern for many inside in outside of the zoo community. Mysore zoo is one of the oldest zoo in India. It was established in 1875 by Maharaja Krishna Raja Wodeyar 4 as a part of his palace complex.

The zoo was originally called Palace zoo but later renamed as Shri Chamarajendra Zoological Gardens after his death in 1894.

Acknowledgement

We express our profound gratitude and sincere things to our principal D.M. Patil sir and Asso Professor D.M.Sarshetti HOD zoology Asst professor Girish Hadpad and Asst professor Mis Rajeshwari Devoor. It gives us great pleasure to acknowledge all kind of encouragement that we received from the during the study tour.

We also express sincere thanks to our all friends who help us during over visit and in the preparation of this report.

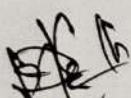
The G.P.Porwal College, Sindagi has organizes educational tours for students every year. This year too, the G.P.Porwal College, Sindagi has organized a study tour to Karnatka, including Coorg-Mysore. The actual commencement of the tour began from 2thJuly to 7th July, 2024. The Undergraduate students and teachers of science faculty who participated for study tour were 26 and 3 respectively. Thus, it was a total of 29 persons. The three Teachers who accompanied were: Prof. D.M.Sarshetti, Mr.Geerish.Hadpad, Ms.Rajeshwari Devoor .

The study tour aims at the following objectives:

- 1) To broaden students' horizons and Indian Historical Temples awareness.
- 2) To give students an opportunity to relate their classroom learning to the real world situations.

Table:- Study tour Itinerary

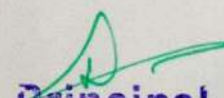
Date	Time	Schedule	Places Visit
03-07-2024	7:00 Am	Journey by Bus from Sindagi	Adichunchunagiri Mysuru Zoo Mysuru palace
04-07-2024	8:00 Am to 6:30Pm	Night journey and Stay in Nanjangud	Nanjangud Mysuru GRS Park
05-07-2024	7:00 Am to 7 :00Pm	Journey to Madikeri from GRS Park for stay	Golden temple Abbey Falls Mugilpete
06-07-2024	9:00 Am to 10:00 Pm	Journey to Kukke Subramanya for stay	Kukke Subramanya


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On 3rd July we reached a Adichunchunagiri after a long journey. We reached there in morn we began our actual siteseeingin from morning 8am to 10am . We visit at a Aadhichunchanagiri Temple. Shree Adichunchanagiri is a pilgrim place which is 3321 feet above sea level. One portion of this hilly range is famous as Akasha Bhairava and the Galigallu is about 125 feet in height. The mighty rock standing at the peak of this hill on almost a small piece of land like a linga is a wonder of sorts. Even today one can pass a sheet of paper through the space between the rock and the hill. But realising the dangers that may pose to people visiting this hill top the Swamiji has constructed an embankment of stones around the place in the form of a fort. The Galigallu is a beauty to watch. One can reach it by climbing the Kudure Kallu by holding the iron chain and there he is, Akasha Bhairava. It is a breath-taking and awe-inspiring scene with greenery all around. The long lines of coconut groves, the hill range, the lakes, the gentle breeze, the beauty of the clouds all bring in a heavenly feeling. Watching the sun set from atop this hill is as mesmerizing as watching the sunset in the coastal region. Just like the stars that twinkle in the sky during night, the electric lights from the towns surrounding these hills sparkle during night when one watches from atop this hill.



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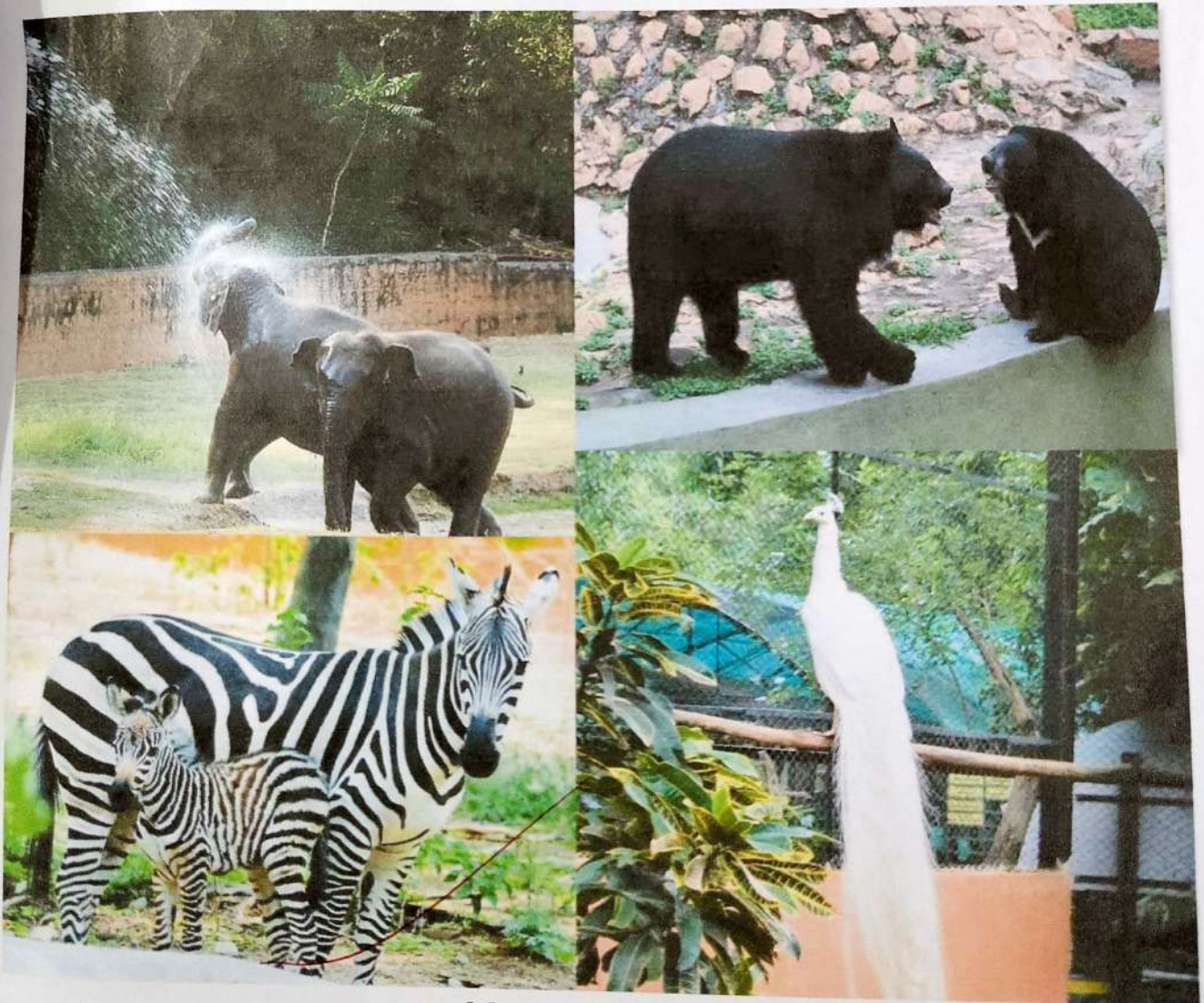
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Mysore Zoo

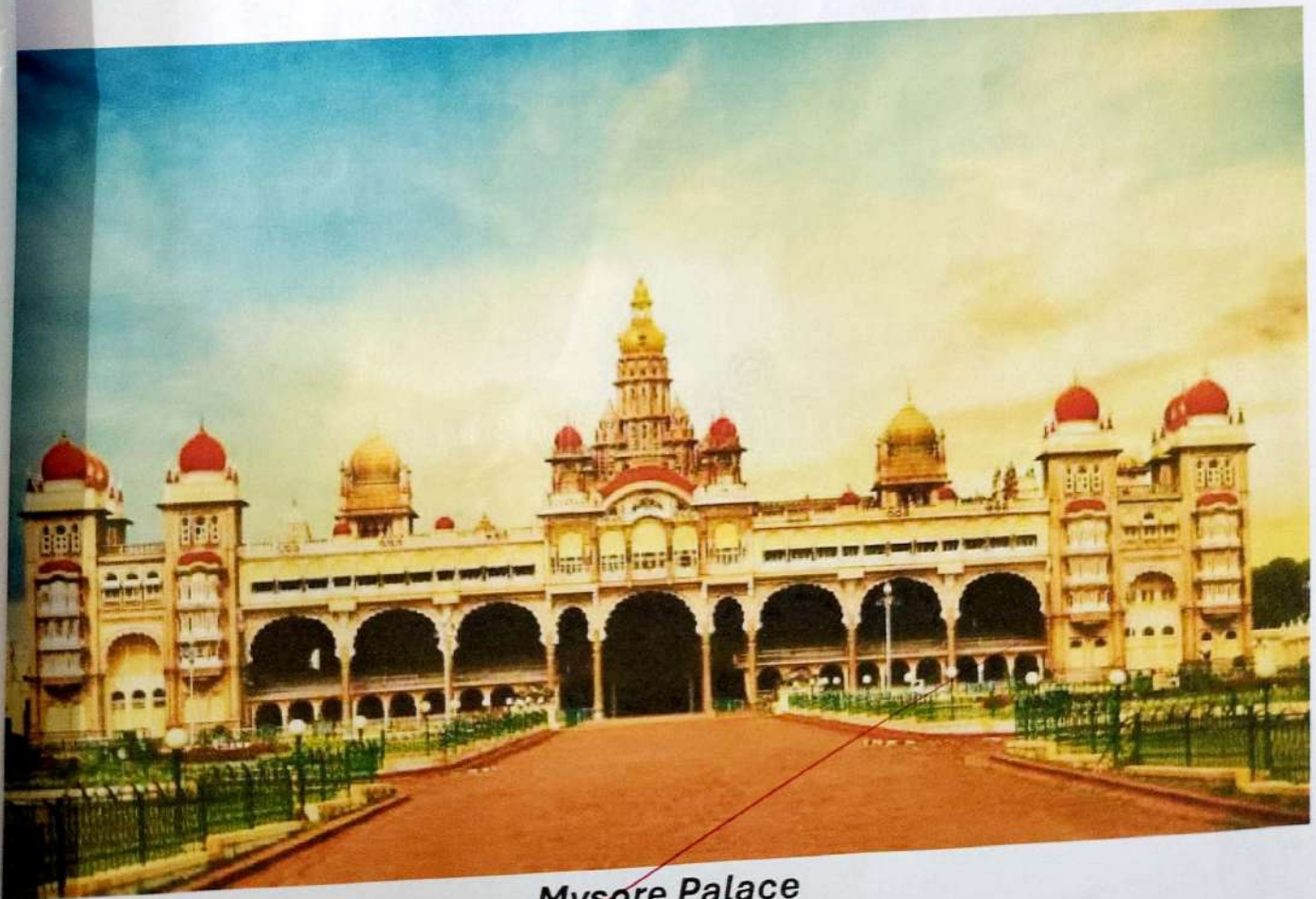
Mysore Zoo (officially the Sri Chamarajendra Zoological Gardens), it is a 157-acre (64 ha) zoo located near the palace in Mysore, India. It is one of the oldest and most popular zoos in India, and is home to a wide range of species (168). The zoo is currently home to ten elephants, and has more elephants than any other zoo in India. A total of 34 elephants have lived at this zoo, many of which were eventually transferred to other zoos. The zoo also has five green anacondas, contributed by Colombo Zoo. It also has giraffes, zebras, lions, tigers, white rhinoceroses, and baboons.



Mysuru Zoo

Mysore Palace

The last palace, now known as the Old Palace or the Wooden Palace, burned to ashes during the wedding of Jayalakshammanni, the eldest daughter of Chamaraja Wodeyar in 1896. Maharaja Krishnaraja Wodeyar IV and his mother Maharani Kempananjammani Devi commissioned the British architect Henry Irwin to build a new palace. E.W. Fritchley worked as a consulting engineer. Meanwhile, the royal family stayed in the nearby Jaganmohan Palace. Construction was overseen by an executive engineer in the Mysore Palace division. He conducted elaborate architectural studies during his visits to Delhi, Madras, and Calcutta, and these were used to plan the new palace. The construction cost was placed at Rs 41,47,913 (around \$ 30 million adjusted to inflation) and the palace was completed in 1912. The palace was further expanded in around 1930 (including the addition of the present Public Durbar Hall wing) during the reign of Maharaja Jayachamarajendra Wodeyar.



Mysore Palace

Golden Temple

It is located in bayalukuppe, Kushalnagar is also called Namdroling Monastery stands beautifully amidst the scenic landscapes, emanating peacefulness and calmness. The monastery is popularly known as Golden Temple owing to the golden paintings crafted on the monastery. This monastery or golden temple was established in the year of 1963, by His Holiness Pema Norbu Rinpoche shortly after his exit from Tibet in 1959 as the second seat of the Palyul Monastery which is one of the six great Tibet Nyingma Mother monasteries. Its walls have been decorated with intricate paintings. These colourful paintings illustrate stories of God and demons from Tibetan Buddhist mythology. The altar of the temple is filled with flowers, candles and incense sticks. You can even spot small birds flying freely around the temple complex. What makes Golden temple even more mesmerizing is the captivating landscapes around it.



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Golden Temple
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Abbey Falls

Also known as Abbi Falls, Abbey Falls, located near Madikeri, is a perfect place to visit in Coorg not only for nature enthusiasts but for shutterbugs as well. The sight of water falling from a cliff with a height of 70 feet, surrounded by lush greenery is indeed a sight that will behold everyone's attention.

The waterfall is a combination of many streams that come together and fall into a pool of water that flows and merge into River Kaveri. The scenic grandeur of Abbey Falls increases by many folds in monsoon. During Monsoon, the stream of water becomes thicker with louder roar. Adding to it is the richer greenery around, which does create sight of a lifetime.



Abbey Falls, Coorg

Mugilpete

Mugilupete town is one of the best places in Madikeri Roads are adventure and crazy excitement, Everywhere you go you see lush green hills and crazy trees This place is famous for viewing at sunrise and sunset. If you are traveling to Coorg, then take a ride through the coffee estate in this charming pocket of nature, and add a perfect touch to your memorable journey! It is situated at an altitude of 1600 m, is located at a distance of about 18 km from Madikeri, Coorg. Slowly developing as one of the best tourist places in Coorg.



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GRS FANTASY PARKGRS FANTASY PARK

There are mainly two types of visits **Snow park** and **water park** .In snow park they offered a snow outfit which is very useful .Dence cold climate and snow , Next we moved towards the water park after the meal so many adventures games.





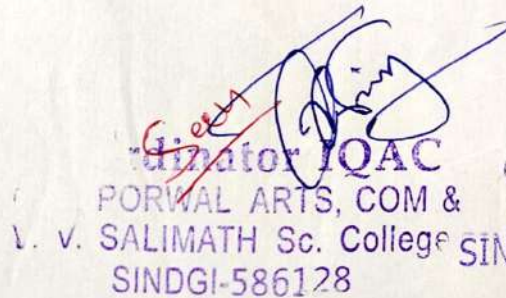
Conclusion

Visit to Zoological garden of Mysore district gives us knowledge about various species of animals and their habitat. It gives us knowledge about conservation and protection of wildlife animals which are about to extinct in future and importance of conservation of their habitat for their survival.



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DIST : VIJAYAPURA



DEPARTMENT OF ZOOLOGY

B.SC VI SEM

FIELD VISIT REPORT

TOPIC : POND ECOSYSTEM

2023-24

NAME : Samarth K.

SUBJECT: Zoology

CLASS : B.Sc VI sem

REG NO : U15NB21S0027


Coordinator IQAC

**G. P. PORWAL ARTS, COM &
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**SUBMITTED BY
Samarth K.**


HOD

**Department of Zoology,
G.P.Porwal Arts, Commerce & Science
College, SINDAGI-586128**

**SUBMITTED TO
D.M Sarashetti**


Principal,

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UNIVERSITY NO :

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TQ : SINDAGI

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DEPARTMENT OF ZOOLOGY

B.SC VI SEM

FIELD VISIT REPORT

2023-2024

This is to certify that Kumari/Kumar Samart K
_____ student of B.Sc visemester has
satisfactorily completed the _____ on the topic
Pond Ecosystem in (D.S.C.) Zoology under
supervision as laid in the regulation of Rani Channamma University,
Belagavi.

DATE :

STAFF MEMBERS INCHARGE

HEAD OF THE DEPARTMENT

HOD
Dept. of Zoology
G.P.Porwal Arts, Commerce & Science
College, Sindagi, Dist. Vijayapur



INTRODUCTION

We are the students of zoology 6th semester along with Associated professor D.M.Sarashetti HOD of ZOOLOGY .Asst professor Miss Rajeshwari devoor on date 17/7/2024 visited to lake . which is situated in Sindagi.

- **Producers:** These include species of rooted, submerged, emerged, floating plants and algae. The most common filamentous algae found in ponds is *Spirogyra*. *Mougeotia* and *Zygnema* are some other algae found in the pond. *Azolla*, *Hydrilla*, *Pistia*, *Wolffia*, *Lemna*, *Eichhornia*, *Nymphaea*, *Potamogeton*, *Jussiaea*, etc., are a few examples of green plants that are found in the pond ecosystem.
- **Primary consumers:** A large population of zooplanktons are the main primary consumers. Besides these, small herbivores such as snails, insects, small fishes, tadpoles, and larvae of aquatic animals are the primary consumers often found in the pond.
- **Secondary consumers:** These include large animal species such as frogs, big fishes, water snakes, crabs, etc. The consumers of the highest order might include mammals like water shrews, water voles, herons, ducks, kingfishers, etc.
- **Decomposers:** These include different types of bacteria and fungi that feed upon dead and decaying parts of the aquatic species.


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GPS Map Camera



Vijayapura, Karnataka, India

W67P+546, dist, behind sangameshwara temple, Sindagi, Vijayapura, Karnataka 586128, India

Lat 16.913056°

Long 76.234834°

17/07/24 11:53 AM GMT +05:30

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Abiotic Components of the Pond Ecosystem

Abiotic components are the non-living components of an ecosystem that matter for the aquatic species' survival. There are the following main abiotic components of a pond ecosystem:

- **Light:** Light serves as a main abiotic component required for the photosynthetic activities of the phytoplankton. The littoral zone has the maximum light penetration, whereas the profound zone has the least light penetration.
- **Temperature:** As the depth of the pond increases, the temperature of the water gradually decreases due to the gradual decrease in the light penetration.
- **Dissolved oxygen:** The amount of dissolved oxygen is maximum in the shallow water and gradually decreases while moving from the surface to the depth of the pond.
- **Dissolved oxygen:** The amount of dissolved oxygen is maximum in the shallow water and gradually decreases while moving from the surface to the depth of the pond.




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Pond Ecosystem: Definition

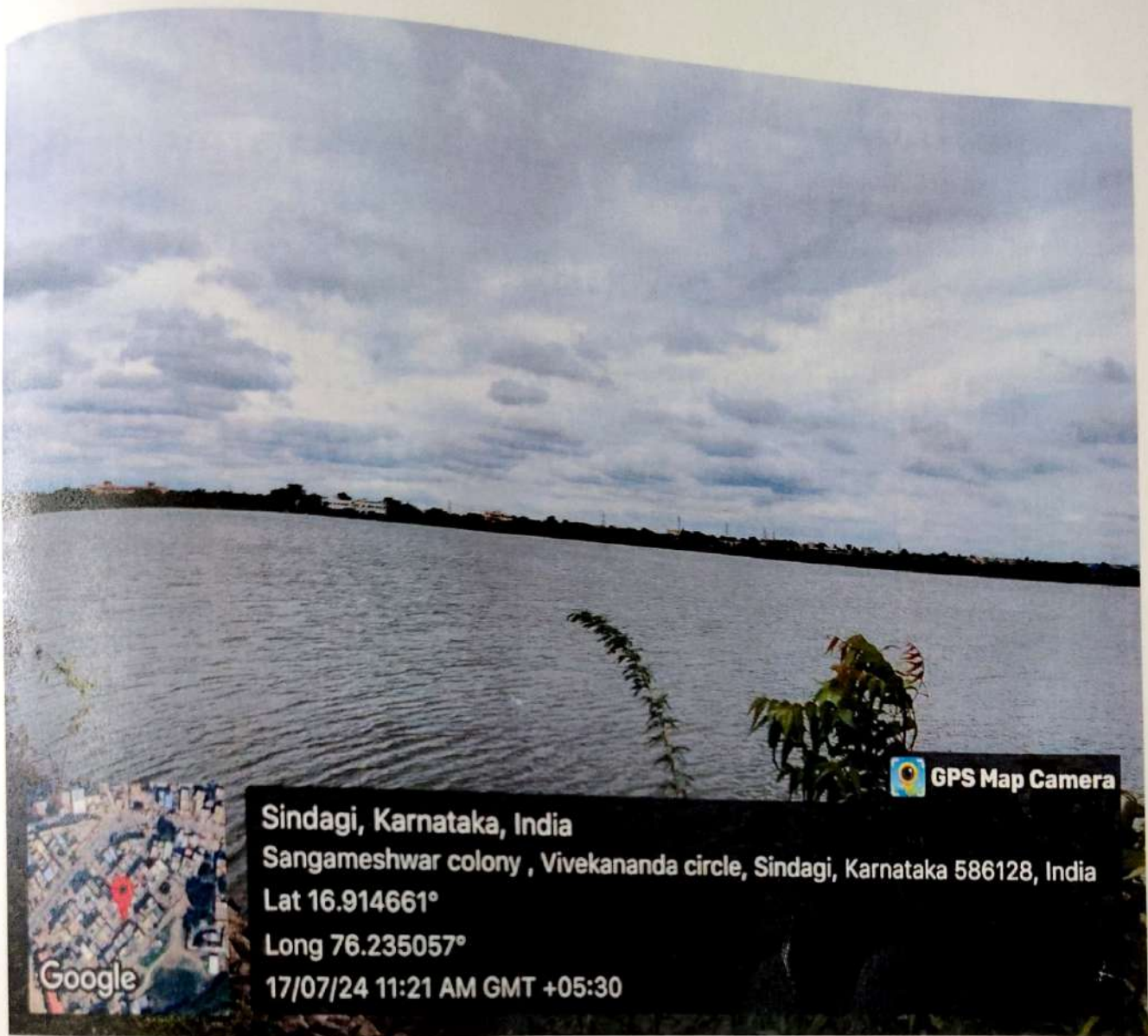
A pond ecosystem is a freshwater ecosystem that can either be temporary or permanent and consists of a wide variety of aquatic plants and animals interacting with each other and the surrounding aquatic conditions. The pond ecosystem falls under the category of a **lentic ecosystem** because the water remains stagnant for a longer period.

Stratification in the Pond Ecosystem

Different factors such as distance from the shore, penetration of light, depth of water, plant and animal species, etc. determine the following zones found in the pond ecosystem:

- **Littoral zone:** It is the zone closer to the shore. It contains shallow water and allows easy penetration of light. Rooted plant species occupy it. Animal species include reeds, crawfish, snails, insects, etc.
- **Limnetic zone:** The limnetic zone refers to the open water of the pond with an effective penetration of light. This zone is dominated by phytoplankton. Animal species mainly include small fishes and insects.
- **Profundal zone:** The region of a pond below the limnetic zone is called a profundal zone with no effective light penetration. Some amphibians and small turtles occupy it.
- **Benthic zone:** The bottom zone of a pond is benthic and is occupied by a community of decomposers. The decomposers are called benthos.

This Lake was announced by a
S.R.Kaahappanavar that periods the
rural M.L.A is M.C.Managuli the both
persons are done good work for
Sindagi peoples. This water purified
from lake to all sindagi & this lake
water use to drinking & others
activities.the lake water supply
maintainers are four members in day
time two persons and night time two
members.



This lake use in the year of 2001 B.K.Yargal to sindagi lake this lake purified uses the chemicals are filter bud through chlorination & alum gutte total four lake in Sindagi.

A lake ecosystem refers to the freshwater ecosystem where there are communities of organisms that are dependent on each other and with the prevailing water environment for their nutrients and survival.

Lake Ecosystem

The ecosystem is a basic unit in ecology formed by the interaction of plants, animals & Micro organisms.

acknowledgment kind of encouragement that we have received during the Project.

We also express sincere thanks to all our friends who helped us during our visit for the preparation of project report.

Lake Ecosystem

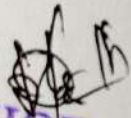
The ecosystem is a basic unit in ecology formed by the interaction of plants, animals & Micro organisms forming biotic factors with their physical environment for the abiotic factors

ACKNOWLEDGEMENT

We express our profound gratitude & sincere thanks to our principal D.M.Patil sir & Ass professor D.M.Sarashetti HOD of ZOOLOGY. Asst prof aMiss Rajeshwari Devoor. It gives a great pleasure to

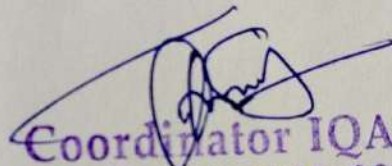
Conclusion

Visit to lake which is located in Sindagi gave us enough knowledge about lake. We have studied of zooplanktons which are present in lake ecosystem.

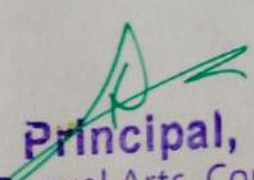


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**G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE
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Affiliated to Rani Channamma University, Belagavi

Accredited at 'B++' Grade (2.76 CGPA) by NAAC

E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 08488-221244 Mobile: 9611032604

Academic year-2023-24

24/01/2024

To
IQAC Co-Ordinator
GPP Arts, Commerce & V.V.S.Science College
Sindagi

Subject: Permission for Field visit

Ref No: As per Rani Channamma University Belagavi

Respected sir,

We, the faculty of Department of Botany along with B Sc students planned to visit to Babaleshwar Nursery on 30/01/ 24 for Practical experimental demonstrations and field observations as it is made compulsory according to Rani Channamma University syllabus .Therefore, we kindly request you to give permission to visit.

Hope the authority will consider and oblige.

Thanking you.

Sindagi
Date: 24/01/2024

Your's faithfully,

HEAD

P.S. M. Bhat (Principal)

G.P.P. & V.V.S. College
SINDGI - 586 128

Coordinator IQAC

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E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 08488-221244 Mobile: 9611032604

Date: 25/01 /2024
Academic Year: 2023-24

To,
Head,
Department of Botany

Sub: Permission for nursery visit .
Ref: Your letter dated 24/01 /2024

Sir/Madam,

With reference to subject cited above I herewith permit you for
nursery visit for B.Sc. V semester students.

Thanking you,

Place: Sindgi
Date: 25/01 /2024

Coordinator, IQAC

SEM

HEAD

Dept. of Botany

G.P.P. & V.V.S. College
SINDGI - 586 128

[Signature]
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E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 08488-221244 Mobile: 9611032604

Date: 27/01/2024

To,
DRFO
Sindagi Regional Forest Department,
Forest Department of Vijaypur
Babaleshwar Nursery

Subject: Permission for Field visit
Ref No: As per Rani channamma University Belagavi of Vth Sem
Botany Practical

Respected sir,

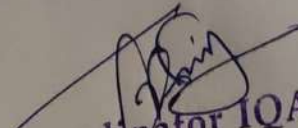
The faculty of Department of Botany planned for field study and visit to Babaleshwar Nursery on 30/01/2024 for B.Sc V Sem Practical experimental demonstrations and field observations as it is made compulsory according to Rani Channamma University syllabus. Therefore, we kindly request you to give permission to visit. We hope the authority will provide suitable experts for above said subject.

Hope the authority will consider and oblige.
Thanking you.

Sindagi
Date: 27/01/2024



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SCIENCE COLLEGE SINDAGI – 586128**

TQ : SINDAGI

DIST : VIJAYAPURA



DEPARTMENT OF BOTANY

B.Sc V SEM

VISIT TO NURSERY

2023-2024

NAME : Suprita Donur

SUBJECT: Botany - II

CLASS : B.Sc V sem

REG NO : U15NB21S0040

Examiners

**SUBMITTED BY
Suprita**

1) *P. B. B. B.*

2) *A. A.*

[Signature]
**SUBMITTED TO
Smt. Shailaja M**

[Signature]

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DEPARTMENT OF BOTANY

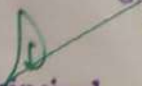
CERTIFICATE

This is to certify that kumari **Suprita Donur** in class B.Sc. V semester has satisfactorily **Visit to Nursery** in Botany - II under my supervision as laid in the Regulation of Rani Channamma University Belagavi.

Date : 7/2/2023
Staff Incharge


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INTRODUCTION

AS Per RCU Syllabus for V sem Paper II Nursery Visit has been made compulsory. Our Teachers planned to visit Babaleshwar Nursery along with V sem students. On 30 January 2024, 40 students with two lectures went for Nursery visit to Babaleshwar. With an aim to Visit the Nursery for the knowledge about the raising of plants in Nursery.

We Left at 10 O' Clock and Reached at 10.30 am. after that we were guided by DRFO Siddu Sir. He educated us about the importance of Nursery.



LCM

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ARTIFICIAL POND



Different Methods of Artificial ponds are used in Agriculture in order to support to the nursery .

The pond area measures about 1 acre, & its depth about 24 ft. Here the pond was filled by Borewell water. Nursery pond is dug out structure with definite shape and size. Stored Water can be used for the Watering Nursery Plants .



GREEN HOUSE

A green house is a structure with walls and roof made chiefly of transparent material, such as glass, in which plants requiring regulated climatic conditions are grown.

These structures range in size from small sheds to industrial sized buildings. A miniature greenhouse is known as a cold frame.

The interior of a greenhouse exposed to sunlight becomes significantly warmer than the external ambient temperature, protecting from cold weather.

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POLY HOUSE

- ▶ A poly house is specially constructed structure like a building for growing plants under control conditions . It is covered with transparent material as such permits entry of natural light.
- ▶ A polyhouse or greenhouse is actually the same things. Traditionally the green house were constructed on wooden frames where the glass was used as covering material.



Seedbed preparation is an a important step that can optimize seed germination and survival rate the goal of seedbed preparation are to retain the maximum amount of soil moisture, control competing vegetation, improve seed to soil contact and allow for the proper seedling depth, germination & emergence of the species to be seeded in the conservation planting.

Four basic seedbed requirements

- Water
- Air
- Warmth & an environment free from diseases.



To cultivate the Sandalwood trees we need sandy soil or red clay soil is used for the preparation of seedbed for the plantation of sandalwood seedlings.

Sunken bed : This type of nursery bed is prepared in a dry & windy areas .

Sunken bed facilitates the deposition of irrigation water or rain water for a long time.

Sunken bed provide protection to the seedlings during high wind condition as they are covered.

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