



The Poona Gujarati Kelavani Mandal's

Haribhai. V. Desai College
of Arts, Science, and Commerce

596, Behind Shanivar Wada, Budhwar Peth, Pune, Maharashtra 411002.



Department of Environmental Science

Academic Year 2023-24

Date: 13.01.2024

To,
The Principal,
Haribhai V. Desai College,
Pune

Subject: Permission to conduct field visit for Bird Watching

Respected Sir,


The Department of Environmental Science is planning to organize a Bird Watching for M. Sc., I and II Environmental Science students. The Bird Watching activity will be organized at Khadakwasla Dam backwater on 16th January 2024. The purpose of the visit is to conduct a survey of migratory birds at wetland habitat and wetland habitat cleaning. The activity will be conducted under Criteria 2 Sub point 2.3.1: Student-centric methods: a) Experiential learning and Criteria 7 subpoint 7.1.3. Institutional environment initiatives: Beyond the Campus environmental promotion activities.

Sir, we request your permission for the field visit. Find attached list of faculty and students.

Thanking You.

Yours Sincerely,


13/01/2024
Mrs. Amruta Chavan,
P. G. Coordinator,
Department of Environmental Science.


Dr. R.B. Patwardhan
Vice Principal, science

TO
Mrs. Amruta,
Chavan
at the meeting



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P. G. K. Mandal's

Haribhai V. Desai College of Arts, Science and Commerce

Department of Environmental Science

M. Sc. I and II List of Students

Sr. No.	Name of Student
1	Arote Sanjay Janabhau
2	Mane Abhishek Manoj
3	Mirajgaonkar Vikram Balbhimrao
4	Moolya Shreya Duggappa
5	Nikam Amar Vitthal
6	Patil Rutuja Shashikant
7	Pawar Shrijay Suresh
8	Ranjeet Mahadev Deshmukh
9	Shinde Akash Balu
10	Toranmal Rushikesh Vajjinath
11	Haral Omkar Suresh
12	Dabhade Vishakha Dattatray
13	Dhobale Tukaram Appasaheb
14	Kadam Ravindra Sanjay
15	Pawar Kaushika Vibhuti
16	Dorkar Gangadhar Daji
17	Musale Gaurav Somnath

Faculty Attendance Sheet

Sr. No.	Name of Faculty
1	Mrs. Amruta V. Chavan
2	Ms. Swati Rani Pandit
3	Ms. Sayali Dhole
4	Dr. Sarika Mane



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Department of Environmental Science
Academic Year 2023-24

**Activity Topic: Field Visit to Khadakwasla Backwater for Bird Watching, Water and
Soil Sampling and Cleanliness Drive**

Date: 16th January, 2024

The **Department of Environmental Science, Haribhai V. Desai College** had organised a field visit to Khadakwasla Dam Backwater for conducting activities of Bird Watching, Water and Soil Sampling and Cleanliness drive for M.Sc. students of Environmental Science.

Following are the details of the Event:

Event Name: Field Visit to Khadakwasla Backwater for Bird Watching, water and soil sampling and cleanliness drive.

Date: 16th January, 2024

Time: 06.30 pm - 03.00 pm

Venue: Khadakwasla Backwater, Pune

Activity Coordinator: Mrs. Amruta Chavan

Department Name: Department of Environmental Science

For Whom: M.Sc. Environmental Science Students

Platform: College Level

Number of attendees: Total students - 8

Faculty members-04

Brief Report:

1. Bird Watching:

On the day of activity all the students gathered near backwater of Khadakwasla Dam at around 6:30 am for Field Visit. Students conducted Bird watching in the early hours of the Day using Binoculars and Field Guidebooks. Students observed migratory birds visiting the wetland habitat as well as native birds in that region. Students referred field guidebooks for the identification of birds. Birds were identified based on colour, beak, wing and eyes. Students



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had downloaded e-Bird app for entering the counts of different birds in the region. A total of 20 birds were observed. Students maintained a logbook for entering the birds observed in the backwater. Butterflies were also identified by the students.

2. Water Sampling Demonstration and Sample Collection:

Demonstration of water sampling was conducted for the students. Students were briefed about water sampling and its different methods. Students were given demonstration of techniques for sample collection, including submerging sampling bottles at specific depths, collection of grab samples from the surface using clean containers and fixing Dissolved Oxygen on-site using chemicals in BOD bottles for further analysis of physico-chemical parameters. Students were explained the precautions while handling and transportation of samples. Following the demonstration, students were given opportunity to collect water samples and to practice proper fixing, handling and labelling procedures. The required chemicals, water analyser kit, BOD bottles, pipettes, gloves, sampling bottles etc. were brought along by the students.

3. Soil Sampling Demonstration and Sample Collection:

Later, demonstration of soil sampling was conducted for the students. Soil sampling was carried out in the area situated near backwaters of Khadakwasla dam. Students were explained and demonstrated with soil sampling method, collection and handling of soil sample. Following the demonstration, students collected the samples from multiple locations using soil augers to dug soil pits and collect samples in plastic bags. Each collected soil samples were accurately labelled with sampling location, date of sampling. Upon completion of water and soil sampling, cleanliness drive of waste collection near backwaters of dam was conducted.

4. Cleanliness Drive:

Khadakwasla backwaters is a place of recreation for many city dwellers. People often visit these areas and litter. Along the bank of backwaters, lots of plastic bottles, wrappers, bags etc. were seen to be present. The waste enters the waterbodies and pollutes the wetland habitat. Due to the absence of waste disposal and collection facilities, degradable waste collection bags were brought to collect waste. All the faculty members and students collected the plastic and organic waste in two different disposable bags.



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Outcome: Students gained lots of knowledge about birds and its behaviour. They learnt to use tools to study and observe bird habitat. They learnt techniques and methods of water and soil sampling. There is need to develop social consciousness among students to increase their participation in cleanliness drive. They developed sense of responsibility through cleanliness drive. With active participation, students gained the hands-on experience and practical skills for their future studies, became aware about current state of the environment and the required efforts to maintain cleanliness in the environment.

Conclusion: The field visit was successfully completed with student's active participation in each activity.

Mrs. Amruta Chavan
P.G. Coordinator, Envi. Sci

Dr. Rajashree Patwardhan
Vice Principal (Science)

Dr. Rajendra Gurao
Principal



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Field Visit to Khadakwasla Backwater for Bird Watching, Water and Soil Sampling and Cleanliness Drive



Water Sampling Demonstration and Sample Collection



Soil Sampling Demonstration and Sample Collection

Cleanliness Drive



Bird Watching