

Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Semester-II of B.A under Vidyasagar University.



Study of floral, faunal and microbial diversity of pond ecosystem of Kharagpur College pond.

Submitted by

Name: Anup Kumar Murmu

Roll: 1112121 No: 220239

Reg No: VU221210037 of year: 2022-2023

Under the supervision of Abhimanyu Mudi
Dept. of Zoology
Kharagpur College



ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Study of floral, faunal and microbial diversity of pond ecosystem of Kharagpur College pond has carried out by Anup Kumar Murmu Roll: 1112121 No: 220239 Reg. No: VU221210037 of 2022-2023 a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his all success.

(Abhimanyu Mudi)
SACT-1
DEPARTMENT OF ZOOLOGY
KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well-wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 14.06.2023

Anup Kumar Murmu

Anup Kumar Murmu

Sem-II, Department- History (Hons.)

Kharagpur College

College Roll No: 2214011

V.U

Roll: 1112121

No.: 220239

Registration No.: VU221210037

4 Introduction	1
Objective of the project	3
♣ Execution of the project	3
4 Theoretical Backdrop	4
❖ Pond ecosystem	4
Pond biodiversity	6
❖ Pond ecosystem producers	7
❖ Pond ecosystem consumers	7
❖ Pond ecosystem decomposers	9
❖ Pond ecosystem abiotic components	9
Observation and data collection	11
♣ Data analysis	12
Limitation of the work	14
♣ Inference from the work	14
♣ Problems and Importance of problems	
4 Conclusions	17
♣ References	20



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.



A study of pond Ecosystem of Gurhi Pukur Kharagpur
Submitted by

Name: Piya Mudi

Roll: 1112121

No:220274

Reg no: VU221210246

of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology 2023 Kharagpur College



ESTD.: 1949

P.O.—Inda, Kharagpur, Municipality—Kharagpur, Sub-Division—Kharagpur, P.S.—Kharagpur (T), Dist.—Paschim Medinipur, West Bengal, PIN—721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled A Study of pond Ecosystem of Gurhipukur, Malancha, Kharagpur has carried out by Piya Mudi Roll: 1112121 No 220274 Reg. No: VU221210246 of year a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish her all success.

(Abhimanyu Mudi) SACT-1 DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to **Prof. Abhimanyu Mudi**, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of **Environmental studies report (AECC-2)**.

I also wish acknowledgement this kind assistance of my respective teacher for giving the cooperation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date :- 20 .06.2023

piya Mudi

Sem-II, Department- History

Piza Mudi

Kharagpur college

Collage Roll No: 2214046

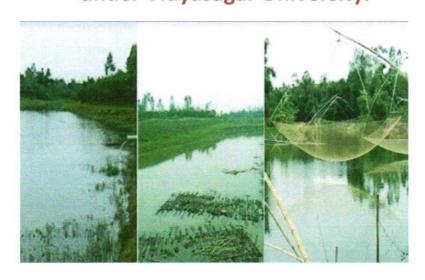
Roll:1112121 No:220274

Registration No: VU221210246

■ Objective of the project ■ Execution of the project ■ Theoretical Backdrop ➤ Pond ecosystem ➤ Pond biodiversity	1-3
■ Theoretical Backdrop > Pond ecosystem	4
> Pond ecosystem	3
	4
> Pond biodiversity	4
	6
> Pond ecosystem producers	7
> Pond ecosystem consumers	7
> Pond ecosystem decomposers	9
> Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
Limitation of the work	14
Inference from the work	14
Problems and Importance of problems	16
- Conclusions	16
References	17



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.



A study of pond Ecosystem of Rangapur pond, Benapur Kharagpur

Submitted by

Name: Ammara Khatun

Roll: 1112121

No:220235

Reg no: VU221210012

of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology 2023



ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled A Study of pond Ecosystem of Rangapur, Pond ,Benapur has carried out by Ammara Khatun Roll: 1112121 No: 220235 Reg. No: VU221210012 of year a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish her all success.

(Abhimanyu Mudi)
SACT-1
DEPARTMENT OF ZOOLOGY
KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to **Prof. Abhimanyu Mudi**, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the cooperation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 20 .06.2023

Ammora Khatun

Ammara Khatun

Sem-II, Department- History

Kharagpur college

Collage Roll No: 2214006

Roll:1112121 No:220235

Registration No: VU221210012

Introduction	1
Objective of the project	3
Execution of the project	3
Theoretical Backdrop	4
> Pond ecosystem	4
> Pond biodiversity	6
> Pond ecosystem producers	7
> Pond ecosystem consumers	7
> Pond ecosystem decomposers	9
> Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
Limitation of the work	14
Inference from the work	14
Problems and Importance of problems	
Conclusions	
References	17



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.

Title: Study of floral, faunal and microbial diversity of pond ecosystem of Gudipukur, Kharagpur.



Submitted by:

Name: Harjeet Singh

Roll: 1111121 No: 220250

Reg no: VU221210118 of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology Kharagpur College



ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled, study of floral, faunal and microbial diversity of pond ecosystem of Gudipukur, Kharagpur. has carried out by Harjeet Singh. Roll: 1111121 No: 220250 Reg. No: VU221210118 of 2022-2023 a student of **Semester-II of B.A.** in **History (Hons.)** under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report'(AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi) SACT-1

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 06.06.2023

Horseet singh

Harjeet Singh

Sem-II, Department- History (Hons.)

College Roll No - 23

Kharagpur college

Roll: 1111121 No.: 220250

Registration No.: VU221210118

Introduction	1
Objective of the project	3
Execution of the project	3
Theoretical Backdrop	4
O Pand ecosystem	4
o Pand biadiversity	6
O Pand ecosystem producers	7
O Pond ecosystem consumers	7
O Pand ecosystem decomposers	9
O Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
Limitation of the work	14
Inference from the work	14
Problems and Importance of problems	16
Conclusions	16
References	17



KHARAGPUR COLLEGE

Project report on environmental studies report (AECC-2) submitted in partial fulfilment for the Sem-II of B.A under Vidyasagar University



Title:A study of Freshwater Pond and its Ecosystem of my Village Jhariapukur, Panchberia, Kharagpur

Submitted by

Najnin Khatun

Roll:1112121 No:220266

Reg No:VU221210214 Session:2022-23

UNDER THE SUPERVISION OF

Prof. Abhimanyu Mudi

Det. Of ZOOLOGY



ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled A study of Freshwater Pond and its Ecosystem of my Village Jhariapukur, Panchberia, Kharagpur has carried out by Najnin Khatun Roll:1112121 No:220266 Reg. No: VU221210214 .of 2022-23 a student of **Semester-II of B.A.** in **History** (**Hons.**) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi)

SACT-1

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well-wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date: - 27.06.2023

Najnin Kheston.

Najnin Khatun

Sem-II, Department- History (Hons.)

Kharagpur college

Roll: 1112121

No.:220266

Registration No.: VU221210214

•	Introduction	1
	Objective of the project	3
	Execution of the project	3
	Theoretical Backdrop	4
	> Pond ecosystem	4
	> Pond biodiversity	6
	> Pond ecosystem producers	
	> Pond ecosystem consumers	7
	> Pond ecosystem decomposers	9
	> Pond ecosystem abiotic components	9
	Observation and data collection	11
	Data analysis	12
	Limitation of the work	
	Inference from the work	14
	Problems and Importance of problems	
	Conclusions	
	References	17



KHARAGPUR COLLEGE

Project report on environmental studies report (AECC-2) submitted in partial fulfilment for the Sem-II of B.A under Vidyasagar University



Title:A study of Freshwater Pond and its Ecosystem of my Village Jhariapukur,Panchberia,Kharagpur

Submitted by

Habiba Khatun

Roll:1112121 No:220249

Reg No:VU221210117 Session:2022-23

UNDER THE SUPERVISION OF

Prof. Abhimanyu Mudi

Det. Of ZOOLOGY



ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled A study of Freshwater Pond and its Ecosystem of my Village Jhariapukur, Panchberia, Kharagpur has carried out by Habiba Khatun Roll:1112121 No:220249 Reg.No:VU221210117 of 2022-23 a student of **Semester-II of B.A.** in **History (Hons.)** under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi) SACT-1

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well-wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 27.06.2023

Habiba Khatun

Habiba Khatun

Sem-II, Department- History (Hons.)

Kharagpur college

Roll: 1112121

No.:220249

Registration No.: VU221210117

•	IIILI Oductioni	'
	Objective of the project	3
	Execution of the project	3
	Theoretical Backdrop	4
	> Pond ecosystem	4
	> Pond biodiversity	6
	> Pond ecosystem producers	7
	> Pond ecosystem consumers	7
	> Pond ecosystem decomposers	9
	> Pond ecosystem abiotic components	9
	Observation and data collection	11
	Data analysis	12
	Limitation of the work	14
	Inference from the work	14
	Problems and Importance of problems	16
	Conclusions	16
	References	17



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.

Title: STUDY OF POND ECOSYSTEM OF KHARAGPUR COLLEGS POND, INDA, KHARAGPUR

Submitted by:

Name: ARBAJ ALI

Roll: 1112121 No: 220240

Reg no: VU221210042 of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology Kharagpur College



ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled **Study of pond ecosystem of Kharagpur College pond, Inda, Kharagpur** has carried out by **Mrinmoy Das** Roll- 1111121 No- 220240 Reg. No-VU221210042 of .2022-2023 a student of **Semester-II of B.A.** in **History (Hons.) u**nder my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

SACT-1
DEPARTMENT OF ZOOLOGY
KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:-98.08.2023

Sem-I, Department- History (MJ)

Kharagpur college

College Roll no: 2214012

V.U

Roll: 1112121 No.: 220240

Registration No.: VU221210042

Introduction	1
Objective of the project	3
• Execution of the project	3
•Theoretical Backdrop	4
➤ Pond ecosystem	4
➤ Pond biodiversity	6
➤ Pond ecosystem producers	7
➤ Pond ecosystem consumers	7
➤ Pond ecosystem decomposers	9
➤ Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
- Limitation of the work	14
Inference from the work	14
Problems and Importance of problems	16
- Conclusions	16
• References	1

•	introduction	
•	Objective of the project	3
	Execution of the project	3
•	Theoretical Backdrop	4
	> Pond ecosystem	4
	> Pond biodiversity	6
	> Pond ecosystem producers	7
	> Pond ecosystem consumers	7
	> Pond ecosystem decomposers	9
	> Pond ecosystem abiotic components	9
	Observation and data collection	11
	Data analysis	12
	Limitation of the work	14
	Inference from the work	14
	Problems and Importance of problems	16
	Conclusions	16
	References	17



Project report on environmental studies report submitted in partialfulfillment for the UG Degree of B.A History Hons under Vidyasagar University.

A Brief Field Work On Pond Ecosystem of Mandir Pukur, Subhaspally



Submitted by:

PADMABATI CHINNA

Sem: II, Department: History

College Roll: 2214044

VU Roll No: 1113121-220271

Reg no: VU221210233 of year: 2022-2023

Under the supervision of---

Abhimanyu Mudi Dept. of Zoology Kharagpur College

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu

Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging

suggestion, motivation and pain taking efforts throughout the period of my project

work of Environmental studies report.

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my Project possible.

Date: - 27 6 2023

PADMABATI CHINNA

Sem-II, Department- History

Kharagpur college

College Roll no: 2214044

Vidyasagar University

Roll: 1113121- 220271

Registration No.: VU221210233



KHARAGPUR COLLEGE

KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN– 721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Study of A brief field work on Pond Ecosystem of Mandir pukur, Subhaspally, has carried out by PADMABATI CHINNA, College Roll No : 2214044, VU Roll No. 1113121-220271 Reg. No VU221210233 of 2022-2023, of a student of Semester-II of B.A. in History Hons under my direct supervision and no part of this project work is not produced anywhere for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (MJ) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report for evaluation.

I wish his/her all success.

(Abhimanyu Mudi)

SACT-1

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

INDEX

- Introduction of Convention on Biological Diversity
- Origin and scope
- ❖ Executive secretary
- International bodies established
- * Strategic Plan for Biodiversity
- Criticism
- Conclusion
- * References



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.

Title: A Study of Different Factors of Pond Ecosystem at My Local Area Pond; Mandirtala pukur.



Submitted by:

Name: Alok Kumar Sharma

Roll: 1111121 No: 220233

Reg no: VU221210006 of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology Kharagpur College



ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled, A brief field work on pond ecosystem of Mandir-Tala Pukur Kharagpur. has carried out by Alok Kumar Sharma Roll: 1111121 No: 220233 Reg. No: VU221210006 of 2022-2023 a student of **Semester-II of B.A.** in **History (Hons.)** under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi) SACT-1 DEPARTMENT OF ZOOLOGY

KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 06.06.2023

HOX Norman Sparance

Alok Kumar Sharma

Sem-II, Department- History (Hons.)

College Roll No - 04

Kharagpur college

Roll: 1111121 No.: 220233

Registration No.: VU221210006

Introduction	1
Objective of the project	3
Execution of the project	3
Theoretical Backdrop	4
o Pand ecosystem	4
o Pand biadiversity	6
o Pand ecosystem producers	7
O Pand ecosystem consumers	7
O Pand ecosystem decomposers	9
O Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
Limitation of the work	14
Inference from the work	14
Problems and Importance of problems	16
Conclusions	16
References	



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.

Stady of floral, faunal and microbial of pond ecosystem of Bandh Pond, Asanboni, Jhargram



Submitted by

Name: Nandita Mahata

Roll No: 1112121-220267

Reg no: VU221210217 of year:-2022-2023

Under the supervision of---

Abhimanyu Mudi

Dept. of Zoology

Kharagpur College

2023

KHARAGPUR COLLEGE

₩mail:

haragpurcollege@gmail.com

KHARAGPUR

☎: 03222-225920

Website:

www.kharagpurcollege.ac.in



ESTD.: 1949

P.O.- Inda, Kharagpur, Municipality- Kharagpur, Sub-Division- Kharagpur,

P.S. – Kharagpur (T), Dist. – Paschim Medinipur, West Bengal, PIN – 721305.

This is to certify that the project report entitle <u>Stady of floral, faunal and microbial of pond ecosystem of Bandh Pond, Asanboni, Jhargram</u> has carried out by <u>Nandita Mahata</u> Roll <u>1112121</u> No <u>220267</u>
Reg.No<u>VU22120217</u> of <u>2022-2023</u> a student of <u>Semester-II of B.A.</u> in <u>History (Hons.)</u> under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

SACT-1

(Abhimanyu Mudi)

DEPARTMENT OF ZOOLOGY

KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 03 .06.2023

Nandita Mahata

Name:- Nandita Mahata

Sem-II, Department- History (Hons)

Kharagpur college

College Roll no:39

V.U

Roll: 1112121

No.: 220267

Registration No.: VU22120217 of 2022-2023

Session: 2022-2023

•	Introduction	1-2
•	Objective of the project	3
	Execution of the project	3
	Theoretical Backdrop	4
	> Pond ecosystem	4-6
	> Pond biodiversity	6-8
	> Pond ecosystem producers	8
	> Pond ecosystem consumers	8-10
	> Pond ecosystem decomposers	11
	> Pond ecosystem abiotic components	11-14
•	Observation and data collection	14-15
	Data analysis	15-16
	Limitation of the work	17
•	Inference from the work	17-20
	Problems and Importance of problems	20-21
	Conclusions	21-23
	References	24



Project report on environmental studies report (VAC-01) submitted in partial fulfillment for the UG Degree of B.A under Vidyasagar University.

Study of floral and fauna and microbial diversity of pond ecosystem padma pukur debalpur kharagpur



Submitted by

Name: Khushbu Falak

Roll: 1111121 No.: 220255

Reg no: VU221210148 of year:-2023-2024

Under the supervision of---

Abhimanyu Mudi

Dept. of Zoology

Kharagpur College

2023



KHARAGPUR COLLEGE **KHARAGPUR**

ESTD.: 1949

P.O.- Inda, Kharagpur, Municipality-Kharagpur, Sub-Division-Kharagpur, P.S.- Kharagpur (T), Dist.- Paschim Medinipur, West Bengal, PIN-721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Study of flora and fauna and microbial diversity of pond ecosystem padma pukur debalpur Kharagpur has carried out by Ms. Khushbu Falak Roll: 1111121 No.: 220255, Reg. No. VU221210148 of 2023-24, a student of Semester-III of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced anywhere for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degreein History (Hons.) under Vidyasagar University.

She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi) SACT-1 DEPARTMENT OF ZOOLOGY

KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Dr. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the cooperation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

06 Date: **18**.04.2023

Khushbu Falak

Sem-II, Department- History

(Hons.)

Kharagpur college Roll: 1111121

No.: 220255

Registration No.: VU221210148 of

2023-24

Session: 2023-2024

Introduction	1
Objective of the project	3
Execution of the project	3
Theoretical Backdrop	4
> Pond ecosystem	4
> Pond biodiversity	6
> Pond ecosystem producers	7
> Pond ecosystem consumers	7
> Pond ecosystem decomposers	9
> Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
Limitation of the work	14
Inference from the work	14
Problems and Importance of problems	16
Conclusions	16
References	17
	Objective of the project



Project report on environmental studies report (AECC-2)Submitted in partial fulfillment for the Sem-II of B.A Under Vidyasagar University

Study of diversity of Pond ecosystem, Prantik Pond, Nimpura, Kharagpur



Submitted by Name: Pratikhya Panda

Roll: 1111121 No: 220276

Reg no:VU221210249 of year:-2022-2023

Under the supervision of---

Abhimanyu Mudi

Dept. of Zoology

Kharagpur college

2023



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Study of diversity of pond ecosystem has carried out by Pratikhya Panda Roll.1111121 No.220276 Reg. No.VU221210249 of 2022-2023 a student of **Semester-II of B.A.** in **History (Hons.) u**nder my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report'(AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi)
SACT-1
DEPARTMENT OF ZOOLOGY
KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the cooperation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 04.06.2023

Name:Pratikhya Panda

Pualikinga Pourda

Sem-II, Department History (MJ)

Kharagpur college

College Roll no: 48

V.U

Roll: 1111121 No.: 220276

Registration No.: VU221210249

Session: 2022-2023

	Introduction	1
	Objective of the project	2
	Execution of the project	3
	Theoretical Backdrop	4
	O Pand ecasystem	5
	O Pand biadiversity	6
	Pand ecosystem producers	7
	Pand ecosystem consumers	8
	Pand ecosystem decomposers	9
	Pond ecosystem abiotic components	10
	Observation and data collection	
	Limitation of the work	14
	Inference from the work	13
	Problems and Importance of problems	15
0	Canclusions	16
	References	17



Project report on environmental studies report (AECC-2)Submitted in partial fulfillment for the Sem-II of B.A Under Vidyasagar University

A brief field work on pond ecosystem of Kharagpur College Pond, Kharagpur



Submitted by

Name: Dipika Sarwari

Roll: 1111121 No: 220245

Reg no: VU221210102 of year: -2022-2023

Under the supervision of-

Abhimanyu Mudi

Dept. of Zoology

Kharagpur college

2023



KHARAGPUR COLLEGE **KHARAGPUR**

ESTD.: 1949

P.O.- Inda, Kharagpur, Municipality-Kharagpur, Sub-Division-Kharagpur, P.S.- Kharagpur (T), Dist.- Paschim Medinipur, West Bengal, PIN-721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Study of Pond Ecosystem has carried out by Dipika Sarwari Roll 1112121 No. 220245 Reg. No. V.U. 221210102 of 2022-2023 a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi) SACT-1 DEPARTMENT OF ZOOLOGY

KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:-05.06.2023

Name: Dipika Sarwari

Dipika Samazi

Sem-II, Department- History (MJ)

Kharagpur college

College Roll no: 19

V.U

Roll: 1112121

No.: 220245

Registration No.: V.U. 210102

Session: 2022-2023

Introduction	1
Objective of the project	2
Execution of the project	3
Theoretical Backdrop	4
O Pond ecosystem	5
o Pand biodiversity	6
o Pond ecosystem producers	7
O Pond ecosystem consumers	8
o Pond ecosystem decomposers	9
Pond ecosystem abiotic components	10
Observation and data collection	11
Data analysis	12
Limitation of the work	14
Inference from the work	13
Problems and Importance of problems	15
Conclusions	16
References	17



Project report on environmental studies report (VAC-01) submitted in partial fulfillment for the UG Degree of B.A under Vidyasagar University.

A Study Of Diversity Of Pond Ecosystem Of



Bamni pukur ,Panchberia , Kharagpur Submitted by

Name: Nargish Parveen

Roll-: 1112121 , no-: 220268

Reg no-: VU221210219 of year:-2022-2023

Under the supervision of---

Abhimanyu Mudi

Dept. of Zoology

Kharagpur College

2023



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.—Inda, Kharagpur, Municipality—Kharagpur, Sub-Division—Kharagpur, P.S.—Kharagpur (T), Dist.—Paschim Medinipur, West Bengal, PIN—721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled A Study Of Diversity Of Pond Ecosystem has carried out by Nargish Parveen, Roll-:1112121, No-: 220268, Reg.No-:VU221210219 of 2022-2023 a student of **Semester-II of B.A.** in **History (Hons.) u**nder my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish her all success.

(Abhimanyu Mudi) SACT-1

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Dr. Moumita Chakraborty, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well-wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 20.06.2023

Nargish Parveen

Sem-II, Department- History (Hons.)

Kharagpur college

Roll -: 1112121

No. -: 220268

Registration No. -: VU221210219

Session: 2022-2023

-Nongalsh Paraveon

Introduction	1
Objective of the project	3
Execution of the project	3
Theoretical Backdrop	4
O Pand ecosystem	4
o Pand biadiversity	6
Pand ecosystem producers	7
o Pond ecosystem consumers	7
Pand ecosystem decomposers	9
Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
Limitation of the work	14
Inference from the work	1/
Problems and Importance of problems	18
Conclusions	16
References	17



Projectreportonenvironmentalstudiesreport(VAC-01)submittedinpartial fulfillment for the UG Degree of B.A under Vidyasagar University.

A brief field work on pond ecosystem of



Puratan Bazar, Kharagpur

Submittedby

Name: MUSLEMA KHATUN

Roll No: 1112121 220263

Regno: VU221210207 of year:-2022-2023

Underthesupervisionof---

Abhimanyu Mudi

Dept. of Zoology

KharagpurCollege

2023



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.

Title: STUDY OF THYSICAL AND CHEMICAL TARAMETERS OF POND ECOSYSTEM AT PURATAN BAZAR

Submitted by:

Name: MUSLEMA KHATUN

Roll: 1112121 No: 220263

Reg no: VU221210207 of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology Kharagpur College



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

Study of Thysical And Chemical Tanameters of Pond ecosystem At Punatan BAZAN

This is to certify that the project report entitled POND OF ECOSYSTEM has carried out by Roll.1112121 No.220263.Reg. No..VU221210207of ...2022-2023.a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish her all success.

(Abhimanyu Mudi)

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 20/06/2023

MUSLEMA KHATUN

Muslema Khatun.

Sem-II, Department- History (HONS)

Kharagpur college

College Roll no: 2214036

Roll: 1112121 No.: 220263

Registration No.: VU221210207

Session: 2022-2023

-	introduction	1
•	Objectiveoftheproject	3
	Executionoftheproject	3
	TheoreticalBackdrop	4
	> Pondecosystem	4
	> Pondbiodiversity	6
	> Pondecosystemproducers	7
	> Pondecosystemconsumers	7
	> Pondecosystemdecomposers	9
	> Pondecosystemabioticcomponents	
	Observationanddatacollection	11
	Dataanalysis	12
	Limitationofthework	14
	Inferencefromthework	14
	ProblemsandImportanceofproblems	
	Conclusions_	
	References	



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.



Title-A Study Of Pond Ecosystem Of Dom Pukur Kharagpur Submitted by:

Name: Alosha NAYAK

Roll:1112121 No: 220234

Reg no:VU221210007 of year:-2022-2023

Under the supervision of--Dr. Abhimanyu Mudi
Dept. of Zoology
Kharagpur College



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled A study of pond Ecosystem Of Dom Pukur Malancha, Kharagpur has carried out by Alosha Nayak Roll 1112121 No 220234 Reg. No VU22121007 of Year a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report'(AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi)
SACT-1
DEPARTMENT OF ZOOLOGY
KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 20.06.2023

Alosha nayak

Sem-II, Department- History

Kharagpur college

Alosha Nægak

College Roll no: 2214005

Roll: 1113121 No.: 220234

Registration No.: VU22121007

Session: 2022-2023

•	Introduction	1
	Objective of the project	3
	Execution of the project	3
	Theoretical Backdrop	4
	> Pond ecosystem	4
	> Pond biodiversity	6
	> Pond ecosystem producers	7
	> Pond ecosystem consumers	7
	> Pond ecosystem decomposers	9
	> Pond ecosystem abiotic components	9
	Observation and data collection	11
	Data analysis	12
	Limitation of the work	14
	Inference from the work	14
	Problems and Importance of problems	16
	Conclusions	16
	References	17



Project report on environmental studies report (VAC-01) submitted in partial fulfillment for the UG Degree of B.A under Vidyasagar University.

Study of Faunal Diversity of



Kharagpur College Pond

Submitted by

Name: Anjela Smriti Minz

Roll: 1112121 No: 220237

Reg. no: VU221210025 of year:-2023-2024

Under the supervision of

Abhimanyu Mudi Dept. of Zoology Kharagpur College

2024



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Study of Fonal Diversity of Kharagpur College Pond has carried out by Miss Anjela Smriti Minz Roll: 1112121 No: 220237 Reg. No: VU221210025 of 2022-2023 a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced anywhere for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi) SACT-1 DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 27.06.2023

Arjela Smriti Minz

Name: Anjela Smriti Minz

Sem-I, Department- History (MJ)

Kharagpur college

College Roll no: 2214009

Roll: 1112121

No.: 220237

Registration No.: VU221210025

Session: 2022-2023

•	Introduction	1
•	Objective of the project	3
	Execution of the project	3
•	Theoretical Backdrop	4
	> Pond ecosystem	4
	> Pond biodiversity	6
	> Pond ecosystem producers	7
	> Pond ecosystem consumers	7
	> Pond ecosystem decomposers	9
	> Pond ecosystem abiotic components	9
•	Observation and data collection	11
	Data analysis	12
•	Limitation of the work	14
	Inference from the work	14
	Problems and Importance of problems	16
•	Conclusions	16
	References	17



Project report on environmental studies report submitted in partialfulfillment for the UG Degree of B.A History Hons under Vidyasagar University.

Study of pond ecosystem of Talljholi Pukur, Kharagpur



Submitted by:

PRIYANKA SINGH

Sem: II, Department: History

College Roll: 2214052

VU Roll No: 1112121-220281

Reg no: VU221210270 of year: 2022-2023

Under the supervision of---

Abhimanyu Mudi Dept. of Zoology Kharagpur College 2023

When all good things come to an end, memories are left behind. In this regard, I feel
 obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu

Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging

suggestion, motivation and pain taking efforts throughout the period of my project

work of Environmental studies report.

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my Project possible.

Date: - 20.06.2023

PRIYANKA SINGH Sem-II, Department- History Kharagpur college

College Roll no: 2214052 Vidyasagar University Roll: 1112121- 220281

Registration No.: VU221210270

Session: 2022-2023



KHARAGPUR COLLEGE

KHARAGPUR

ESTD.: 1949

P.O.- Inda, Kharagpur, Municipality- Kharagpur, Sub-Division- Kharagpur, P.S.- Kharagpur (T), Dist.- Paschim Medinipur, West Bengal, PIN-721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Study of pond ecosystem of TALLJHOLI, KHARAGPUR, has carried out by Priyanka Singh, College Roll No: 2214052, VU Roll No. 1112121-220281 Reg. No VU221210270 of 2022-2023, of a student of Semester-II of B.A. in History Hons under my direct supervision and no part of this project work is not produced anywhere for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (MJ) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report for evaluation.

I wish his/her all success.

(Abhimanyu Mudi)

SACT-1

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

	Introduction	5-6
	Objective of the project	7
	Execution of the project	:7
	Theoretical Backdrop	
	> Pond ecosystem	8-10
	> Pond biodiversity	10-11
	> Pond ecosystem producers	
	> Pond ecosystem consumers	11-13
	> Pond ecosystem decomposers	13
	> Pond ecosystem abiotic components	13-15
•	Observation and data collection	15-16
	Data analysis	16-17
	Limitation of the work	
	Inference from the work	18-20
	Problems and Importance of problems	
	Conclusions	
	References	- DAY



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.

Title: A brief field work on pond ecosystem of Bamniarcla pukur, Kharagpur.



Submitted by:

Name: MD Masoom

Roll: 1111121 No: 220259

Reg no: VU221210188 of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology Kharagpur College

2023

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date: - 06.06.2023

ud Masoom

MD Masoom

Sem-II, Department- History (Hons.)

College Roll No - 33

Kharagpur college

Roll: 1111121 No.: 220259

Registration No.: VU221210188



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled, A brief field work on pond ecosystem of Bamniarcla pukur, Kharagpur. has carried out by MD Masoom. Roll: 1111121 No: 220259 Reg. No: VU221210188 of 2022-2023 a student of **Semester-II of B.A.** in **History (Hons.)** under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

(Prof. Abhimanyu Mudi)

SACT-1

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

Introduction	1
Objective of the project	3
Execution of the project	3
Theoretical Backdrop	4
o Pond ecosystem	4
o Pand biadiversity	6
O Pond ecosystem producers	7
O Pond ecosystem consumers	7
O Pond ecosystem decomposers	9
O Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
Limitation of the work	14
Inference from the work	14
Problems and Importance of problems	16
Conclusions	16
References	17



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.

Title: Study of Diversity of Pond Ecosystem Of Kharagpur college Pond

Submitted by:

Name: AKASH SASMAL

Roll: 1112121

No: 220232

Reg No: VU221210005 of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology Kharagpur College



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Study of diversity of pond Ecosystem of kharagpur college pond has carried out by Akash Sasmal Roll. 1112121 .No.220232 .Reg. No.VU221210005.of2022-2023..a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report'(AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi) SACT-1 DEPARTMENT OF ZOOLOGY

KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 06.06.2023

Name-Akash Sasmal

Sem-II, Department- History (Hons.)

Kharagpur college

College Roll no: 2214003

Reg No.- VU221210005

Roll:1112121

No. 220232

•	Introduction	1
	Objective of the project	3
	Execution of the project	3
	Theoretical Backdrop	4
	> Pond ecosystem	4
	> Pond biodiversity	6
	> Pond ecosystem producers	7
	> Pond ecosystem consumers	7
	> Pond ecosystem decomposers	9
	> Pond ecosystem abiotic components	
	Observation and data collection	11
	Data analysis	12
	Limitation of the work	
	Inference from the work	14
	Problems and Importance of problems	
	Conclusions	
	References	



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Semester-II of B.A under Vidyasagar University.



Study of diversity of pond Ecosystem of Hoda Pukur, Tarapur, Khalseuli.

Submitted by

Name: Ranajit Sing

Roll: 1112121 No: 220285

Reg No: VU221210296 of year: 2022-2023

Under the supervision of Abhimanyu Mudi
Dept. of Zoology
Kharagpur College

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well-wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date: 18.06.23.

Ramasit sing.

Ranajit Sing

Sem-II, Department- History (Hons.)

Kharagpur College

College Roll No: 2214056

Roll: 1112121

No.: 220285

Registration No.: VU221210296



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Study of diversity of pond Ecosystem of Hoda Pukur, Tarapur, Khalseuli has carried out by Ranajit Sing Roll: 1112121 No: 220285 Reg. No: VU221210296 of 2022-2023 a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his all success.

(Abhimanyu Mudi) SACT-1 DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

4 Introduction	1
Objective of the project	3
Execution of the project	3
4 Theoretical Backdrop	4
❖ Pond ecosystem	4
❖ Pond biodiversity	6
❖ Pond ecosystem producers	7
❖ Pond ecosystem consumers	7
❖ Pond ecosystem decomposers	
❖ Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
Limitation of the work	
♣ Inference from the work	14
♣ Problems and Importance of problems	16
♣ Conclusions	
♣ References	20



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Semester-II of B.A under Vidyasagar University.



Study of diversity of pond Ecosystem of Sudhar Pukur, Changal, Kharagpur.

Submitted by

Name: Ashish Hansda

Roll: 1112121 No: 220242

Reg No: VU221210054 of year: 2022-2023

Under the supervision of Abhimanyu Mudi
Dept. of Zoology
Kharagpur College

KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Study of diversity of pond Ecosystem of Sudhar Pukur, Changal, Kharagpur.has carried out by Ashish Hansda Roll: 1112121 No: 220242 Reg. No: VU221210054 of 2022-2023 a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his all success.

(Abhimanyu Mudi) SACT-1

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well-wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 13.06.2023

Ashish Hansda

Sem-II, Department-History (Hons.)

Ashish Hansda

Kharagpur College

College Roll No: 2214015

V.U

Roll: 1112121 No.: 220242

Registration No.: VU221210054

	1
Objective of the project	3
♣ Execution of the project	3
Theoretical Backdrop	4
❖ Pond ecosystem	4
❖ Pond biodiversity	6
❖ Pond ecosystem producers	7
❖ Pond ecosystem consumers	7
❖ Pond ecosystem decomposers	9
❖ Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
♣ Limitation of the work	14
♣ Inference from the work	1
♣ Problems and Importance of problems	10
4 Conclusions	1′
↓ References	20



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.

Title: STUDY OF FLORAL FAUNAL AND MICROBIAL DIVERSITY OF POND ECOSYSTEM AT SHANKARPUR

Submitted by:

Name: RESHMA KHATUN

Roll: 1112121 No: 220286

Reg no: VU221210299 of year:-2022-2023

Under the supervision of--Abhimanyu Mudi
Dept. of Zoology
Kharagpur College



KHARAGPUR COLLEGE **KHARAGPUR**

ESTD.: 1949

P.O. Inda, Kharagpur, Municipality Kharagpur, Sub-Division Kharagpur, P.S. – Kharagpur (T), Dist. – Paschim Medinipur, West Bengal, PIN – 721305.

TO WHOM IT MAY CONCERN

study of Floral Found and Microbial Devensity of Pond Microbial Devensity of Pond Ecosystem At SHATKARPER.

This is to certify that the project report entitled POND OF ECOSYSTEM has carried out by Roll.1112121 No.220286.Reg. No..VU221210299of ...2022-2023.a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish her all success.

SACT-1 DEPARTMENT OF ZOOLOGY

KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 20/06/2023

RESHMA KHATUN

Reshma Khatun

Sem-II, Department- History (HONS)

Kharagpur college

College Roll no: 2214057

Roll: 1112121 No.: 220286

Registration No.: VU221210299

•	Introduction	1
	Objectiveoftheproject	3
•	Executionoftheproject	3
	TheoreticalBackdrop	4
	> Pondecosystem	4
	> Pondbiodiversity	6
	> Pondecosystemproducers	
	> Pondecosystemconsumers	7
	> Pondecosystemdecomposers	9
	> Pondecosystemabioticcomponents	9
	Observationanddatacollection	11
	Dataanalysis	12
	Limitationofthework	
	Inferencefromthework	
	ProblemsandImportanceofproblems	
	Conclusions	
	References	



Project report on Environment Studies report(AECC-2) Submitted in portalfulfilment for the Sem-II of B.A under Vidyasagar University.

Study of pond ecosystem of Mandirtalab Kharagpur



Submitted By

Name: - I Tulsi

Roll No: 2214024

Reg no: VU221210121 of year: 2022-2023

Under the supervision of
Abhimanyu Mudi
Dept. of Zoology Kharagpur College
2023



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled **Abhimanyu Mudi** has carried out by **I Tulsi** Roll **1112121**No **220251** Reg. NoVU221210121of **2022-2023** a student of **Semester-II of B.A.** in **History (Hons.) u**nder my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi) SACT-1 DEPARTMENT OF ZOOLOGY

KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 08,021,2023

History Honours

Ų

Signature I. Tuls?

Name I Tulsi

Sem-II, Department- History (MJ)

Kharagpur college

College Roll no: 2214024

V.U

Roll:1112121

No.:220251

Registration No.: VU221210121

•	Introduction	1
	Objective of the project	1
	Execution of the project	2
•	Theoretical Backdrop	8
	> Pond ecosystem	2
	> Pond biodiversity	1
	> Pond ecosystem producers	2
	> Pond ecosystem decomposers	1
	> Pond ecosystem abiotic components	2
•	Observation and data collection	1
	Limitation of the work	
	Inference from the work	
	Problems and Importance of problems	
	Conclusions	
	References	



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Semester-II of B.A under Vidyasagar University.

A brief field work on pond ecosystem of



Kali Mandir pukur, Subhaspally, Kharagpur

Submitted by

Name: Ankita Dey

Roll: 1112121 No:220238

Reg no: VU221210030 of year:-2022-2023

Under the supervision of--Abhimanyu Mudi
Dept. of Zoology
Kharagpur College
2023

Website: www.kharagpurcollege.ac.in



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled A brief field work on pond ecosystem of Kali Mandir pukur, Subhaspally, Kharagpur has carried out by Ankita Dey Roll:1112121 No:220238 Reg. No:VU221210030 of year a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

She has been submitted an 'Environmental Studies report'(AECC-2) for evaluation.

I wish his all success.

(Abhimanyu Mudi)

SACT-1

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the cooperation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:-20.06.2023

Anxita Dey

Ankita Dey

Sem-II, Department History(Hons.)

Kharagpur college

College Roll no: 2214010

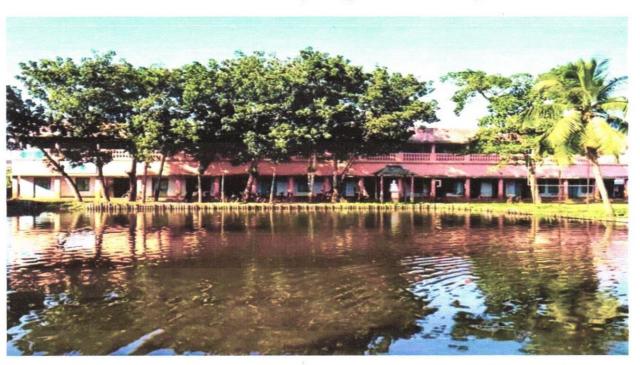
Roll:1112121 No:220238

Registration No:VU221210030

•	Introduction	2-3
	Objective of the project	3
	Execution of the project	3
	Theoretical Backdrop	4-6
	> Pond ecosystem	6
	> Pond biodiversity	6-7
	> Pond ecosystem producers	7
	> Pond ecosystem consumers	8-9
	> Pond ecosystem decomposers	9
	> Pond ecosystem abiotic components	9-10
	Observation and data collection	11-12
	Data analysis	12-13
	Limitation of the work	14
	Inference from the work	14-15
	Problems and Importance of problems	16-17
	Conclusions	17-20
	References	21



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.



A brief field work on pond ecosystem of School pukur, Rdhamohonpur.

Submitted by

Name: DEEP CHAKRABORTY

Roll: 1112121

No: 220243

Reg no: VU221210093

of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology Kharagpur College



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled A brief field work on pond ecosystem of School pukur Rdhamohonpur has carried out by Deep chakraborty Roll.1112121 No 220243 Reg. No VU221210093 of2022-2023 a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his all success.

(Abhimanyu Mudi) SACT-1 DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 20.06.2023

DEEP CHAKRABORTY

Deep Charrenborte

Sem-II, Department- History (HONS)

Kharagpur college

Roll: 1112121 No.: 220243

Registration No.: VU221210093

*	Introduction	1
*	Objective of the project	3
*	Execution of the project	3
*	Theoretical Backdrop	4
	Pond ecosystem	4
	Pond biodiversity	6
	Pond ecosystem producers	7
	Pond ecosystem consumers	7
	Pond ecosystem decomposers	9
	Pond ecosystem abiotic components	9
*	Observation and data collection	11,12
*	Data analysis	12,13
*	Limitation of the work	14
*	Inference from the work	14,15
*	Problems and Importance of problems	16,17
*	Conclusions	18,19
*	References	20



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Semester-II of B.A under Vidyasagar University.



Aspects of Pond Ecosystem of Narasinghapur Pukur, Benapur, Kharagpur.

Submitted by

Name: Soumen Sing

Roll: 1112121 No: 220315

Reg No: VU221210400

of year:2022-2023

Under the supervision of -Abhimanyu Mudi Dept. of Zoology Kharagpur College

Website: www.kharagpurcollege.ac.in



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Aspects of Pond Ecosystem of Narasinghapur Pukur, Benapur, Kharagpur.has carried out by Soumen Sing Roll: 1112121 No: 220315 Reg. No: VU221210400 of 2022-2023 a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under VidyasagUniversity.

He has been submitted an 'Environmental Studies report'(AECC-2) for evaluation.

I wish his all success.

(Abhimanyu Mudi)SACT-1 DEPARTMENT OF ZOOLOGYKHARAGPUR COLLEGE

Acknowledgement

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date: - 13.06.2023

Soumen Sing

Sem-II, Department-History (Hons.)

Kharagpur College

College Roll No:

2214084

Roll: 1112121 No.: 220315

Registration No.: VU221210400

4 Introduction	1
Objective of the project	3
* Execution of the project	3
4 Theoretical Backdrop	4
❖ Pond ecosystem	4
❖ Pond biodiversity	6
❖ Pond ecosystem producers	7
❖ Pond ecosystem consumers	7
❖ Pond ecosystem decomposers	9
❖ Pond ecosystem abiotic components	9
Observation and data collection	11
♣ Data analysis	12
Limitation of the work	14
♣ Inference from the work	14
♣ Problems and Importance of problems	16
♣ Conclusions	17
♣ References	20

VIDYASAGAR UNIVERSITY



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.

Title: Study of floral, faunal and microbial diversity of pond ecosystem of motia pukur, Malancha

Submitted by:

Name: Priyanka Kumari

Roll: 1112121 No: 220279

Reg no: vu221210262 of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology Kharagpur College



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled Study of floral, faunal and microbial diversity of pond ecosystem of Motia pukur, Malancha has carried out by

Priyanka Kumari, Roll: 1112121 No: 220279 Reg. No: VU221210262 of 2022-2023 a student of **Semester-II of B.A.** in **History (Hons.) under** my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

Polyanka kumari Signature of the student

(Abhimanyu Mudi)
SACT-1
DEPARTMENT OF ZOOLOGY
KHARAGPUR COLLEGE

Acknowledgement

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 06.04.2023

Priyanka Kumari

Priyanka Kumari

Name

Sem-II, Department- History(Hons)

Kharagpur College

College Roll no: 51

V.U: 221210262 of 2022-2023

Roll: 1112121

No.: 220279

Registration No: VU221210262 of 2022-2023

Introduction	1
Objective of the project	. 3
Execution of the project	3
Theoretical Backdrop	•
> Pond ecosystem	•
> Pond biodiversity	,
> Pond ecosystem producers	O
> Pond ecosystem consumers	,
> Pond ecosystem decomposers	,
> Pond ecosystem abiotic components	
Observation and data collection	
Data analysis	
Limitation of the work	-
Inference from the work	
Problems and Importance of problems	_
Conclusions	
References	
	4

VIDYASAGAR UNIVERSITY



PROJECT REPORT ON ENVIRONMENTAL STUDIES REPORT (AECC-2) SUBMITTED IN PARTIAL FULFILLMENT FOR THE 2ND SEMESTER OF B.A UNDER VIDYASAGAR UNIVERSITY

STUDY OF PHYSICAL AND CHEMICAL PARAMENTERS OF A POND ECOSYSTEM OF SANTRA PUKUR, DEBALPUR, KHARAGPUR.



SUBMITED BY

NANE: JHILIK SHIT

ROLL: 1112121 NO: 220252 REGISTRATION NO: VU221210132

SESSION: 2022 - 2023

UNDER THE SUPERVISON OF - ABHIMANYU MUDI

DEPT. OF ZOOLOGY

KHARAGPUR COLLEGE

Acknowledgement

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Dr. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmentalstudies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date: - 20.06.2023

Name:

Jhilik Shit.

Sem-II, Department- History (MJ)

Kharagpur college

College Roll no: 2214025

V.URoll: **1112121** No.: **220252**

Registration No.:VU221210132



0000000

KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality – Kharagpur, Sub-Division – Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled study of physical and Chemical Parameters of pond Ecosystem of Santra Pukur, Debalpur, Kharagpur, has carried out by Jhilik Shit Roll 1112121 No 220252 Reg. No VU221210132 of 2022-2023 a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced anywhere for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

She has been submitted an 'Environmental Studies report'(AECC-2) for evaluation.

I wish his/her all success.

(Prof. Abhimanyu Mudi)
DEPARTMENT OF ZOOLOGY
KHARAGPUR COLLEGE

INDEX

❖ Introduction	1
❖ Objective of the project	3
 Execution of the project 	3
❖ Theoretical Backdrop	4
> Pond ecosystem	4
> Pond biodiversity	5
> Pond ecosystem producers	6
> Pond ecosystem consumers	7
> Pond ecosystem decomposers	8
> Pond ecosystem abiotic components	8
❖ Observation and data collection	11
❖ Data analysis	12
❖ Limitation of the work	14
❖ Inference from the work	14
❖ Problems and Importance of problems	16
❖ Conclusions	17
❖ References	20

AASAGAR UNIVERSITATION OF THE STATE OF THE S



KHARAGPUR COLLEGE

A PROJECT REPORT ON

ENVIRONMENTAL SCIENCE

TOPIC

" Study of Pond Ecosystem of Kharagpur college, Inda Kharagpur "

SUBMITED BY

NAME **MUSKAN**

ROLL NO. : 1112121 NO: 220262

DEPARTMENT: HISTORY HONS.

REG. NO VU221210202

2ND SEMESTER

2022-2023 SESSION

INDUSTRIAL VISIT REPORT



PLACE OF VISIT: Kharagpur College Pond

Date of Visit: 30th Jan 2024

Participants: 2nd Semester Student

Submitted by

Name : MUSKAN

University Roll No. : 1112121 NO. 220262,

University Registration No. : VU221210202 OF 2022-2023

2ND Semester 2022-2023 Vidyasagar University, Kharagpur College - 721305



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.



ACKNOWLEDGEMENT

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (VAC-1).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my PROJECT possible.

Date: 06.06.2024

(Muskan)
Semester - 2,
Department- History
Kharagpur College
College Roll no: 37
Vidyasagar University
Roll: 1112121 No.: 220262
Registration No.: VU221210202

-	Introduction	'
•	+Objective of the project	
+	Execution of the project	
+	Theoretical Backdrop	4
	o Pand ecosystem	4
	o Pand biadiversity	6
	O Pond ecosystem producers	7
	Pand ecosystem consumers	
	O Pand ecosystem decomposers	
	O Pond ecosystem a biotic components	9
_	Observation and data collection	11
		"
+		
+ +	Data analysis	12
+ + +	Data analysis	12 14
+ + + +	Data analysis	12 14 14
+++++	Data analysis Limitation of the work Inference from the work	12 14 14 16

VIDYASAGAR UNIVERSITY

Affiliated To



KHARAGPUR COLLEGE

ENVIRONMENTAL STUDIES



Submitted By

ANISUR RAHAMAN

College Roll No: 07

ROLL : **1112121** NO : **220236**

Registration No: VU221210023 of 2022-2023

-:Title:-

Study of physical and Chemical Parameters of pond ecosystem of local pond at Kharida.

Under The Supervision of

Prof : Abhimanyu Mudi

(Department of Zoology)

хнан; кнагадригсонеделедиан.com

Website: www.kharagpurcollege.ac.in



KHARAGPUR COLLEGE KHARAGPUR

ESTO.: 1949
P.O.- Inda, Kharagpur, Municipality- Kharagpur, Sub-Division-Kharagpur,
P.S.- Kharagpur (T), Dist.- Paschim Medinipur, West Bengal, PIN-72 1305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled, Study of physical and Chemical Parameters of pond ecosystem of local pond at Kharida Bamni pukur. Kharagpur. has carried out by MD Masoom. Roll: 1112121 No: 220236 Reg. No: VU22 121010023 of 2022-2023 a student of Sem ester-II or B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in

He/She has been submilled an 'Environmental Studies report'(AECC-2) for evaluation.

I wish his/her all success.

History (Hons.) under Vidyasagar University.

(Prof. Abhimanyu Mudi) SACT-1 DEPARTMENT OFZOOLDGY KHARAGPUR

COLLEGE

Acknowledgement

When all good things come to an end, memories are left behind. In this regard, Ifeel obliged to all those who helped me to see this day.

To begin with Iwould like to express my deep sense of gratitude to Prof. Abhimanyu Mudi,my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

lalso wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work. Last but no means least, lexpress my profound regards, thanks and affection to my parents and all other well-wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date: 06.06.2023

Agus VI Rahaman

Sem-11, Department- History (Hons.)

College Roll No - 07

Kharagpur college

Roll: 1112121No.: 220236

Registration No.: VU221210023

Introduction	1
Objective of the project	3
Execution of the project	3
Theoretical Backdrop	4
O Pond ecosystem	4
O Pond biodiversity	6
O Pond ecosystem producers	7
O Pond ecosystem consumers	7
O Pand ecosystem decomposers	9
O Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
Limitation of the work	14
Inference from the work	14
Problems and Importance of problems	16
Conclusions	16
References	17



A PROJECT REPORT ON **ENVIRONMENTAL SCIENCE (VAC-01)**

Submitted In Partial Fulliment Of The ug Degree of B.A under Vidyasagar University.

A STUDY OF DIVERSITY OF POND **ECOSYSTEM OF**



Padmapukur, subhaspally, kharagpur

SUBMITED BY

NAME: NAINA AFRIN

ROLL NO.: 1112121 NO: 220265

DEPARTMENT: HISTORY HONOURS

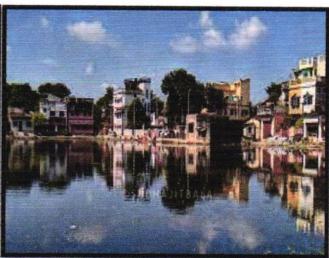
REG. NO: VU221210210

SEMESTER: 2ND

SESSION: 2022-2023

PADMAPUKUR POND VISIT REPORT





PLACE OF VISIT: PADMAPUKUR, SUBHASPALLY

Date of Visit: 20th January 2024

Participants: BA 2nd Semester Student

Submitted by

Name : Naina Afrin

University Roll No. : 1112121 NO: 220265

University Registration No.: VU221210210 OF 2022-2023

B.A- 2nd Semester 2023-2024 Vidyasagar University, Midnapore - 721102



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.— Inda, Kharagpur, Municipality— Kharagpur, Sub-Division— Kharagpur, P.S.— Kharagpur (T), Dist.— Paschim Medinipur, West Bengal, PIN—721305.



ACKNOWLEDGEMENT

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (VAC-1).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my PROJECT possible.

Date: 5/3/2023

(NAINA AFRIN)

Semester - 2,
Department- History
Kharagpur College

College Roll no: 37 Roll : 1112121 No.: 220265

Registration No.: VU221210210

+ Introduction	1
	3
Execution of the project	3
+ Theoretical Backdrop	4
o Pand ecosystem	4
O Pand biadiversity	6
O Pond ecosystem producers	7
o Pond ecosystem consumers	7
O Pand ecosystem decomposers	9
O Pond ecosystem a biotic components	9
Observation and data collection	11
+ Data analysis	12
Limitation of the work	14
+ Inference from the work	14
+ Problems and Importance of problems	16
+ Conclusions	16
	17

VIDYASAGAR UNIVERSITY



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.

TITLE

A Brief field work on pond ecosystem of Bose pukur,

Bamunpara, kharagpur.



Submitted by

Name: PRIYANKA DANDAPAT

Roll:1112121

No: 220278

Reg no: VU221210260

of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology Kharagpur College

Website: www.kharagpurcollege.ac.in



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled A brief field work on pond ecosystem of Bose pukur, Bamunpara, kharagpur. has carried out by PRIYANKA DANDAPAT Roll-1112121 No-220278 Reg.No - VU221210260 of 2022-2023 a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi) SACT-1 DEPARTMENT OF ZOOLOGY

KHARAGPUR COLLEGE

Acknowledgement

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 20 .06.2023

Name: PRIYANKA DANDAPAT

Sem-IJ, Department-History (MJ)

Parifanka Danda Pat

Kharagpur college

College Roll no: 2214049

V.U

Roll: 1112121

No.: 22028

Registration No.: VU221210260

•	Introduction	1
	Objective of the project	3
	Execution of the project	3
•	Theoretical Backdrop	4
	> Pond ecosystem	4
	> Pond biodiversity	6
	> Pond ecosystem producers	7
	> Pond ecosystem consumers	7
	> Pond ecosystem decomposers	9
	> Pond ecosystem abiotic components	9
•	Observation and data collection	11
	Data analysis	12
	Limitation of the work	14
•	Inference from the work	14
	Problems and Importance of problems	16
	Conclusions	16
	References	17

VIDYASAGAR UNIVERSITY



Project report on environmental studies report (AECC-2) submitted in partial fulfillment for the Sem-II of B.A under Vidyasagar University.

TITLE

Study of floral, faunal and microbial diversity of pond ecosystem of



Tamly-pukur, Kharagpur.

Submitted by

Name: PAPIYA PANJA

Roll:1112121

No: 220272

Reg no: VU221210238

of year:-2022-2023

Under the supervision of---Abhimanyu Mudi Dept. of Zoology Kharagpur College

2023



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN–721305.

TO WHOM IT MAY CONCERN

This is to certify that the project report entitled **Study of floral, faunal and microbial diversity of pond ecosystem of Tamly-pukur, Kharagpur** has carried out by **PAPIYA PANJA** Roll-1112121 No-220272 Reg.No - **VU221210238 of 2022-2023** a student of **Semester-II of B.A.** in **History (Hons.) u**nder my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi)
SACT-1
DEPARTMENT OF ZOOLOGY
KHARAGPUR COLLEGE

Acknowledgement

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date: - 20 .06.2023

Papija Panja

Name: PAPIYA PANJA

Sem-I), Department-History (MJ)

Kharagpur college

College Roll no: 2214045

V.U

Roll: 1112121

No.: 220272

Registration No.: VU221210238

•	Introduction	1
•	Objective of the project	3
	Execution of the project	3
	Theoretical Backdrop	4
	> Pond ecosystem	4
	> Pond biodiversity	6
	> Pond ecosystem producers	7
	> Pond ecosystem consumers	7
	> Pond ecosystem decomposers	9
	> Pond ecosystem abiotic components	9
	Observation and data collection	11
	Data analysis	12
	Limitation of the work	14
	Inference from the work	14
	Problems and Importance of problems	
	Conclusions	
	References	

VIDYASAGAR UNIVERSITY



Project report on environmental studies report submitted in partialfulfillment for the UG Degree of B.A History Hons under Vidyasagar University.

Study of physical and Chemical Parameters of pond ecosystem of Kalimandir pukur, Subhaspally



Submitted by:

MANGAMA LIMAI

Sem: II, Department: History

College Roll: 2214031

VU Roll No: 1113121-220257

Reg no: VU221210174 of year: 2022-2023

Under the supervision of---

Abhimanyu Mudi Dept. of Zoology Kharagpur College

Acknowledgement

When all good things come to an end, memories are left behind. In this regard, I feel
 obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu

Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging

suggestion, motivation and pain taking efforts throughout the period of my project

work of Environmental studies report.

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my Project possible.

Date:-

MANGAMA LIMAI

Sem-II, Department- History

Kharagpur college

College Roll no: 2214031

Vidyasagar University

Roll: 1113121- 220257

Registration No.: VU221210174



KHARAGPUR COLLEGE

KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN– 721305.

TO WHOM IT MAY CONCERN

Parameters of pond ecosystem of Kalimandir pukur, Subhaspally , has carried out by MANGAMA LIMA, College Roll No : 2214031, VU Roll No. 1113121-220257 Reg. No VU221210174 of 2022-2023, of a student of Semester-II of B.A. in History Hons under my direct supervision and no part of this project work is not produced anywhere for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (MJ) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report for evaluation.

I wish his/her all success.

Abhimanyu Mudi) SACT-1

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

•	Introduction	1
	Objective of the project	3
	Execution of the project	3
	Theoretical Backdrop	4
	> Pond ecosystem	4
	> Pond biodiversity	6
	> Pond ecosystem producers	7
	> Pond ecosystem consumers	7
	> Pond ecosystem decomposers	9
	> Pond ecosystem abiotic components	9
	Observation and data collection	11
	Data analysis	12
	Limitation of the work	14
	Inference from the work	14
	Problems and Importance of problems	16
	Conclusions	16
	References	17

VIDYASAGAR UNIVERSITY



Project report on environmental studies report (VAC-01) submitted in partial fulfillment for the UG Degree of B.A under Vidyasagar University.

A brief field work on pond ecosystem of



Jhin Talab, Bhagwanpur, Kharagpur

Submitted by

Name: Ashis Prasad

Roll No: 1111121 No: 220241

Reg no: VU221210053 of year:-2023-2024

Under the supervision of---

Abhimanyu Mudi

Dept. of Zoology

Kharagpur College

2024



KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949
P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur,

TO WHOM IT MAY CONCERN

This is to certify that the project report entitle pond ecosystem has carried out by Ashis prasad Roll.No 1111121220241 Reg. No VU221210053 of 2022-2023 .a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report'(AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi) SACT-1

DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

Acknowledgement

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Ashis Prasad

27-6-2023

Ashis prasad

Sem-II, Department history (hons)

Kharagpur college

Roll: 1111121220241

Registration No.: VU221210053

Session: 2022-2023

Index

	Introduction	1
	Objective of the project	3
•	Execution of the project	3
	Theoretical Backdrop	4
	> Pond ecosystem	4
	> Pond biodiversity	6
	> Pond ecosystem producers	7
	> Pond ecosystem consumers	7
	> Pond ecosystem decomposers	9
	> Pond ecosystem abiotic components	9
	Observation and data collection	11
	Data analysis	12
	Limitation of the work	14
	Inference from the work	14
	Problems and Importance of problems	16
	Conclusions	16
	References	

VIDYASAGAR UNIVERSITY



Project report on environmental studies report (VAC-01) submitted in partial fulfillment for the UG Degree of B.A under Vidyasagar University.

A brief field work on pond ecosystem of



Guri Pukur ,Inda, Kharagpur

Submitted by

Name: Raman Kumar Gupta

Roll No: 2214055

Reg no: VU221210 29 of year: -2023-2024

Under the supervision of---

Abhimanyu Mudi

Dept. of Zoology

Kharagpur College

2024



KHARAGPUR COLLEGE KHARAGPUR

CERTIFICATE

A brief field work on Grain Pukur

This is to certify that the project report entitled POND ECOSYSTEM has carried out by RAMAN KUMAR GUPTA Roll 1112121.N0 220284.Reg. No.VU221210295 of 2023-24 a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report' (AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi)

SACT-1 DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

Acknowledgement

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Dr. Moumita Chakraborty, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Date:- 27/06/2029

Rames

RAMAN KUMAR GUPTA

Sem-II, Department- History (Hons.)

Kharagpur college

Roll: 2214055

Registration No.: VU221210295

Session: 2022-2023

Index

•	Introduction	1
•	Objective of the project	3
	Execution of the project	3
•	Theoretical Backdrop	4
	> Pand ecosystem	4
	> Pand biodiversity	6
	> Pand ecosystem producers	7
	> Pand ecosystem consumers	7
	> Pond ecosystem decomposers	_ 9
	> Pond ecosystem abiotic components	9
	Observation and data collection	11
	Data analysis	12
	Limitation of the work	
	Inference from the work	14
	Problems and Importance of problems	16
•	Conclusions	18
	References	17

VIDYASAGAR UNIVERSITY



Project report on environmental studies report (VAC-01) submitted in partial fulfillment for the UG Degree of B.A under Vidyasagar University.

Topic: Study of floral, faunal and microbial diversity of pond ecosystem.



Jintalab, Bhagwanpur, Kharagpur.

SUBMITTED BY:-

NAME: Dipak Sharma.

ROLL NO.: 1112121220244

REGN NO.: VU221210100 of year 2022-23

UNDER THE SUPERVISION OF:-

Abhimanyu Mandi

Dept. of Zoology

Kharagpur College

2024



KHARAGPUR COLLEGE KHARAGPUR

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur,

TO WHOM IT MAY CONCERN

Study of floral and microbial diversity Jintalab

This is to certify that the project report entitle pond ecosystem has carried out by Dipak sharma Roll.No 1112121220244 Reg. No VU221210100. of 2022-2023 .a student of Semester-II of B.A. in History (Hons.) under my direct supervision and no part of this project work is not produced any where for evaluation. The project work is quite satisfactory and up to the standard for the partial fulfilment of B.A. degree in History (Hons.) under Vidyasagar University.

He/She has been submitted an 'Environmental Studies report'(AECC-2) for evaluation.

I wish his/her all success.

(Abhimanyu Mudi)

SACT-1 DEPARTMENT OF ZOOLOGY KHARAGPUR COLLEGE

Acknowledgement

When all good things come to an end, memories are left behind. In this regard, I feel obliged to all those who helped me to see this day.

To begin with I would like to express my deep sense of gratitude to Prof. Abhimanyu Mudi, my supervisor, for this valuable guidance, constant supervision, encouraging suggestion, motivation and pain taking efforts throughout the period of my project work of Environmental studies report (AECC-2).

I also wish acknowledgement this kind assistance of my respective teacher for giving the co-operation and intellectual guidance during my project work Last but no means least, I express my profound regards, thanks and affection to my parents and all other well- wishers for their direct or indirect help, encouragement and mental support which has made my project possible.

Dipak Sharma

27-6-2023

Dipak Sharma

Sem-II, Department history (hons)

Kharagpur college

Roll: 11121220244

Registration No.: VU221210100

Session: 2022-2023

Index

Introduction	1
Objective of the project	3
Execution of the project	3
Theoretical Backdrop	4
> Pond ecosystem	4
> Pond biodiversity	6
> Pond ecosystem producers	7
> Pond ecosystem consumers	7
> Pond ecosystem decomposers	9
> Pond ecosystem abiotic components	9
Observation and data collection	11
Data analysis	12
Limitation of the work	14
Inference from the work	14
Problems and Importance of problems	16
Conclusions	16
References	17