

Assessment of Water Pollution in Local Rivers

The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

Supriyo Kumar De

University Roll-1122121

No.-210200

Regn. No.-VU211017265

Of 2021-2022

Under The Supervision

Of

Dr. Samir Kumar Giri

Assistant Professor

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CERTIFICATE

This is to certify that investigation reported in this project work entitled **"Assessment of Water Pollution in Local Rivers"** is a record of bona fide work. The work is carried by **Supriyo Kumar De**, under my supervision. **Supriyo Kumar De** is submitting this work for partial fulfilment of *the degree of Bachelor of Science(Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 21.09.23

Dr. Samir Kumar Giri

Assistant Professor

Department of Physics

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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Dr. Samir Kumar Giri**, Assistant Professor, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur College.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 21.09.23

Supriyo Kumar Be
Signature of Candidate

Study of Urban Air Quality

The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

Anindya Sundar Patra

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Regn. No.-VU221210935

Of 2022-2023

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CERTIFICATE

This is to certify that investigation reported in this project work entitled "**Study of Urban Air Quality**" is a record of bona fide work. The work is carried by **Anindya Sundar Patra**, under my supervision. **Anindya Sundar Patra** is submitting this work for partial fulfilment of *the degree of Bachelor of Science (Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 22.09.23


Dr. Samir Kumar Giri
Assistant Professor
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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Dr. Samir Kumar Giri**, Assistant Proffesor, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur Collage.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

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Signature of Candidate

Place : KHARAGPUR COLLEGE

Date : 22.09.23

Study of Pollution Control Measures in Industrial Areas

The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

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This is to certify that investigation reported in this project work entitled "**Study of Pollution Control Measures in Industrial Areas**" is a record of bona fide work. The work is carried by **Sk Safiul Islam**, under my supervision. **Sk Safiul Islam** is submitting this work for partial fulfilment of *the degree of Bachelor of Science(Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 22/07/23

Parbati Basu

Dr. Parbati Basu

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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Dr. Parbati Basu**, SACT, Department of Physics, Kharagpur college, for ~~his~~ constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur College.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 22/09/23

SK Sofiul Islam.
Signature of Candidate

Study of Sustainable Energy Consumption Patterns

*The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of
the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II*

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

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This is to certify that investigation reported in this project work entitled "**Study of Sustainable Energy Consumption Patterns**" is a record of bona fide work. The work is carried by **Souvik Acharya**, under my supervision **Souvik Acharya** is submitting this work for partial fulfilment of *the degree of Bachelor of Science(Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 21/09/23

Parbati Basu ,

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ACKNOWLEDGEMENT

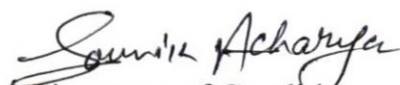
I would like to express my deep sense of gratitude to **Dr. Parbati Basu**, SACT, Department of Physics, Kharagpur college, for ~~her~~ constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur College.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 21/09/23


Signature of Candidate

Examination of Urban Waste Management Strategies

*The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of
the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II*

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

Sayan Dey

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Of 2022-2023

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This is to certify that investigation reported in this project work entitled **"Examination of Urban Waste Management Strategies"** is a record of bona fide work. The work is carried by **Sayan Dey**, under my supervision. **Sayan Dey** is submitting this work for partial fulfilment of *the degree of Bachelor of Science(Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 22/09/23



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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Prof. Pankaj Patra**, SACT, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I am also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur College.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 22/09/23


Signature of Candidate

Inspection of renewable Energy Technologies

*The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of
the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II*

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

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I wish him success in his life.

Date: 21/09/23

Pankaj Patra

Prof. Pankaj Patra

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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Prof. Pankaj Patra**, SACT, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur Collage.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 21/09/23

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Study of Climate Change and its Effects on Natural Resources

*The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of
the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II*

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

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No.-220185

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Of 2022-2023

Under The Supervision

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This is to certify that investigation reported in this project work entitled "**Study of Climate Change and its Effects on Natural Resources**" is a record of bona fide work. The work is carried by **Somnath Gayen**, under my supervision. **Somnath Gayen** is submitting this work for partial fulfilment of *the degree of Bachelor of Science(Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 22/09/23



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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Prof. Pankaj Patra**, SACT, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur College.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 22/09/23

Somnath Ghosh
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Study of Marine Pollution and its Impact on Ecosystems

The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

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This is to certify that investigation reported in this project work entitled "**Study of Marine Pollution and its Impact on Ecosystems**" is a record of bona fide work. The work is carried by **Kalyan Khatua**, under my supervision. **Kalyan Khatua** is submitting this work for partial fulfilment of *the degree of Bachelor of Science^(Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 21/09/23

Pankaj Patra

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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Prof. Pankaj Patra**, SACT, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur College.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 21/09/23

Kalyan Khata.
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Study of Renewable Energy Energy Initiatives in Kharagpur College

*The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of
the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II*

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

Mrinmoy Chowdhury

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Of 2021-2022

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This is to certify that investigation reported in this project work entitled "**Study of Renewable Energy Initiatives in Kharagpur College**" is a record of bona fide work. The work is carried by **Mrinmoy Chowdhury**, under my supervision **Mrinmoy Chowdhury** is submitting this work for partial fulfilment of *the degree of Bachelor of Science^(Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 21/09/23



Prof. Mihir Das

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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Prof. Mihir Das**, Assistant Professor, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur Collage.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 21/09/23

Mrinmoy Chowdhury
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Investigation on Renewable Energy Sources and their potential in addressing Climate Change

The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

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Of 2022-2023

Under The Supervision

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This is to certify that investigation reported in this project work entitled **"Investigation on Renewable Energy Sources and their potential in addressing Climate Change "** is a record of bona fide work. The work is carried by **Souradip Ghosh**, under my supervision **Souradip Ghosh** is submitting this work for partial fulfilment of *the degree of Bachelor of Science(Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 21/09/23



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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Prof. Mihir Das**, Assistant Professor, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur Collage.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 21/09/23

Souradip Ghosh
Signature of Candidate

Land Degradation due to Mining Activities

The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

Saptarshi Pahari

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Of 2022-2023

Under The Supervision

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This is to certify that investigation reported in this project work entitled "**Land Degradation due to Mining Activities**" is a record of bona fide work. The work is carried by **Saptarshi Pahari**, under my supervision. **Saptarshi Pahari** is submitting this work for partial fulfilment of *the degree of Bachelor of Science(Hons.) under CBCS 2023 for Semester-II in Environment Studies (ENVS)*(Course Code: ENVSAE)of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 22/09/23



Prof. Rudra Narayan Mondal

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Kharagpur College

ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Prof. Rudra Narayan Mondal**, Assistant Proffesor, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur College.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 22/09/23

Septanshi Bahari
Signature of Candidate

Survey of Renewable Energy Sources

The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

Ramrenu Mandal

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No.-220177

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Of 2022-2023

Under The Supervision

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CERTIFICATE

This is to certify that investigation reported in this project work entitled "**Survey of Renewable Energy Sources**" is a record of bona fide work. The work is carried by **Ramrenu Mandal**, under my supervision. **Ramrenu Mandal** is submitting this work for partial fulfilment of *the degree of Bachelor of Science(Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 22/09/23



Prof. Rudra Narayan Mondal

Assistant Professor

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Kharagpur College

ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Prof. Rudra Narayan Mondal**, Assistant Proffesor, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur Collage.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 22/09/23

Rampenu Mandal

Signature of Candidate

Observation of Wildlife Conservation Efforts

The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

Dipankar Dutta

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Regn. No.-VU221210967

Of 2022-2023

Under The Supervision

Of

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This is to certify that investigation reported in this project work entitled **"Observation of Wildlife Conservation Efforts"** is a record of bona fide work. The work is carried by **Dipankar Dutta**, under my supervision. **Dipankar Dutta** is submitting this work for partial fulfilment of *the degree of Bachelor of Science (Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 21/09/23


Prof. Rudra Narayan Mondal

Assistant Professor
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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Prof. Rudra Narayan Mondal**, Assistant Professor, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur College.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 21/09/23



Signature of Candidate

Painful Impact of Deforestation on Biodiversity

The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

Arijit Santra

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No.-220174

Regn. No.-VU221210942

Of 2022-2023

Under The Supervision

Of

Dr. Ritwik Saha

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This is to certify that investigation reported in this project work entitled "**Painful Impact of Deforestation on Biodiversity**" is a record of bona fide work. The work is carried by **Arijit Santra**, under my supervision **Arijit Santra** is submitting this work for partial fulfilment of *the degree of Bachelor of Science(Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance. I wish him success in his life.

Date: 22/09/23



Dr. Ritwik Saha

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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Dr. Ritwik Saha**, Assistant Proffesor, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I ^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur Collage.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 22/09/23

Ayijit Santra
Signature of Candidate

Study Of Soil Erosion in Agricultural Land

The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

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University Roll- 1122121

No.-220173

Regn. No.-VU221210937

Of 2022-2023

Under The Supervision

Of

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CERTIFICATE

This is to certify that investigation reported in this project work entitled "**Study Of Soil Erosion in Agricultural Land**" is a record of bona fide work. The work is carried by **Anirban Jana**, under my supervision. **Anirban Jana** is submitting this work for partial fulfilment of *the degree of Bachelor of Science(Hons.) under CBCS 2023 for Semester-II in Environment Studies* (Course Code: ENVSAE) of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 21/09/2023

Dr. Ritwik Saha

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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Dr. Ritwik Saha**, Assistant Professor, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I^{am} also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur Collage.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 21/09/2023

Anirban Jana

Signature of Candidate

Inquiry of Land use Planning and Conservation

The project report submitted to VIDYASAGAR UNIVERSITY, in partial fulfilment of the requirement for the degree of Bachelor of Science CBCS 2023 for Semester-II

In

Environment Studies (ENVS)

(Course Code: ENVSAE)

By

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Regn. No.-VU221211140

Of 2022-2023

Under The Supervision

Of

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CERTIFICATE

This is to certify that investigation reported in this project work entitled "**Inquiry of Land use Planning and Conservation**" is a record of bona fide work. The work is carried by **Tapas Maikap**, under my supervision. **Tapas Maikap** is submitting this work for partial fulfilment of *the degree of Bachelor of Science(Hons.) under CBCS 2023 for Semester-II in Environment Studies (ENVS)*(Course Code: ENVSAE)of Vidyasagar University. The work of this project has not been submitted for the award of any other degree under my supervision and guidance.

I wish him success in his life.

Date: 21/09/2023

Dr. Ritwik Saha

Assistant Professor

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ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude to **Dr. Ritwik Saha**, Assistant Professor, Department of Physics, Kharagpur college, for his constant encouragement, guidance and instructions.

I am also very thankful to **Dr. Bidyut Samanta**, respected Principal of Kharagpur College.

I would like to express my thanks to my parents and friends for their encouragements and support during this project work.

Place : KHARAGPUR COLLEGE

Date : 21/09/23

Tapas Mukhop
Signature of Candidate