Department of Electrical and Computer Engineering
North South University

Senior Design Project

Automated Fisheries Water Quality Monitoring System

Submitted By: Group 6

Name	ID
Tanbin Akter Mitaly	1712438642
Paplu Dash	1611420043

Faculty Advisor:

Md. Shahriar Hussain

Lecturer

ECE Department

Fall, 2020

LETTER OF TRANSMITAL

February, 2021

To

Dr. Mohammad Rezaul Bari

Chairman,

Department of Electrical and Computer Engineering

North South University, Dhaka

Subject: **Submission of Capstone Project Report on "Automated Fisheries Water Quality Monitoring System."**

Dear Sir,

With due respect, we would like to submit our **Capstone Project Report** on **"Automated Fisheries Water Quality Monitoring System."** as a part of our BSc program. The report deals with Automated Fisheries Water Quality Monitoring System. This project was very much valuable to us as it helped us gain experience from practical field and apply in real life. We tried to the maximum competence to meet all the dimensions required from this report.

We will be highly obliged if you kindly receive this report and provide your valuable judgment. It would be our immense pleasure if you find this report useful and informative to have an apparent perspective on the issue.

Sincerely Yours,

.....
Tanbin Akter Mitaly
ECE Department
North South University, Bangladesh

.....
Paplu Dash
ECE Department
North South University, Bangladesh

APPROVAL

Tanbin Akter Mitaly (ID - 1712438642), Paplu Dash (ID - 1611420043)) from Electrical and Computer Engineering Department of North South University, have worked on the Senior Design Project titled "**Automated Fisheries Water Quality Monitoring System.**" under the supervision of Md. Shahriar Hussain partial fulfillment of the requirement for the degree of Bachelors of Science in Engineering and has been accepted as satisfactory.

Supervisor's Signature

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Md. Shahriar Hussain

Lecturer

Department of Electrical and Computer Engineering

North South University

Dhaka, Bangladesh.

Chairman's Signature

…….

Dr. Mohammad Rezaul Bari

Associate Professor

Department of Electrical and Computer Engineering

North South University

Dhaka , Bangladesh.

DECLARATION

This is to certify that this Project is our original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reproduced in this project has been properly acknowledged.

Students' names & Signatures

1. Tanbin Akter Mitaly

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2. Paplu Dash

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Acknowledgement

First of all, we would like to express our profound gratitude to our honourable course instructor,

Md. Shahriar Hussain for his constant and meticulous supervision, valuable suggestions, his patience and encouragement to complete the thesis work.

We would also like to thank the ECE department of North South University for providing us with the opportunity to have an industrial level design experience as part of our curriculum for the undergraduate program.

Abstract:

Fisheries is one of the main prospects to grow economically also we benefit from it by the production of food and the nutrition that is required us to live by. For fisheries, it's important to maintain good water quality as it is an important factor that affects fish health and performance in the aquaculture production system. It matters what type of fish we are culturing in our system due to different fish species need a different range of water quality aspects in which they can survive. Different fish species have a different optimized point to growing well. Don't maintain the water quality can result in parasite infestations, poor growth, erratic behaviour and various disease system. The water quality is dependent on climate, seasonal changes also how a culture system is used. To maintain good water quality conditions we need to look at physical and chemical components of water that have an impact on water quality.