In Silico Characterization of selected Microsatellite Loci and Testing of Primers for PCR Amplification in Zebrafish.

A dissertation submitted to St Xavier's College - Autonomous

For the partial fulfillment of the degree of Master of Science in Biotechnology

By

Ms. Luvita Thommana

MSc. (Biotechnology)



St Xavier's College (Autonomous)

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2019-2020

Under the guidance of

Dr. M. A. Pathan

ICAR- Central Institute of Fisheries Education (CIFE)

POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY

St Xavier's College (Autonomous)

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CERTIFICATE

This is to certify that Ms. Luvita Thommana, student of MSc (Biotechnology) - SemesterIV, at the Post Graduate Department of Biotechnology, St. Xavier's College (Autonomous) has submitted the dissertation work titled "In Silico Characterization of Selected Microsatellite Loci and Testing of Primers for PCR Amplification in Zebrafish" for the partial fulfillment of the Master's degree in Science in Biotechnology, during the academic year 2019-2020.

Date: 28/07/2020

Place: Mumbai

Dr. Karuna Gokarn

Head of the Department, PGDBT

POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY ST. XAVIER'S COLLEGE, MUMBAI-400 001



भारतीय कृषि अनुसंधान परिषद केन्द्रीय मात्स्यिकी शिक्षा संस्थान

(वि. अ. आ. अधिनियम धारा-3 के अंतर्गत विश्वविद्यालय)



ICAR-CENTRAL INSTITUTE OF FISHERIES EDUCATION

(University under Sec.3 of UGC Act)

CERTIFICATE OF COMPLETION

This is to certify that Ms. Luvita Thommana, student of MSc (Biotechnology), St. Xavier's College (Autonomous) has completed four months training / Research Project at the ICAR- Central Institute of Fisheries Education (CIFE), during the academic year 2019-2020.

She has completed the dissertation work entitled "In Silico Characterization of Selected Microsatellite Loci and Testing of Primers for PCR Amplification in Zebrafish" for the partial fulfillment of MSc. (Biotechnology) degree. She has been familiarized with the following techniques during this project:

- a) Primer designing
- b) PCR
- c) Electrophoresis
- d) Ensemble

This carefully written report represents the experiments and literature related to the same carried out by her during the period from 1st December 2019 to 31st March 2020.

I found, Ms. Luvita Thommana to be a sincere and hardworking student. Her overall conduct was good.

PI/ supervisor: Dr. M. A. Pathan

Signature:

Date: 28/7/2020

Seal of the institute:

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