DEVELOPMENT OF A CHARGING INFRASTRUCTURE ECOSYSTEM FOR EXPANSION OF ELECTRIC VEHICLES ADOPTION TO REDUCE OUR CARBON FOOTPRINT AND AIR POLLUTION

A DISSERTATION REPORT

Submitted to the University of Mysore in partial fulfilment for the award of degree of

MASTER OF SCIENCE

IN

ENVIRONMENTAL SCIENCE

BY

NITHESH A

(P01ZZ21S0565)

UNDER THE GUIDANCE OF

Dr. ABHILASH M. R.,

Ph. D., CChem., MRSC (London).,

Department of Studies in Environmental Science

Manasagangothri, University of Mysore, Mysore - 570 006

AUGUST

CERTIFICATE

I. NITHESH A. (P01ZZ21S0565) certify that the Dissertation work entitled "DEVELOPMENT OF A CHARGING INFRASTRUCTURE ECOSYSTEM FOR EXPANSION OF ELECTRIC VEHICLES ADOPTION TO REDUCE OUR CARBON FOOTPRINT AND AIR POLLUTION", is the result of the work carried out by me under the guidance of Dr. ABHILASH M.R., Ph. D., CChem., MRSC (London)., Guest faculty, Department of Studies in Environmental Science, University of Mysore, Manasagangothri, Mysuru. I am submitting this Dissertation work for the award of Master of Science (M. Sc) degree in Environmental Science by the Mysore University during the year 2022-2023.

I further certify that this work has not been submitted by me for the award of any other degree or diploma of this or any other university.

Signature of Master's Candidate

of Research Supervisor

Date: 02-09-2023

Date: 04-09-2023

Counter signed by the

Chairperson of the Department Dr. G.V. VENKATARAMANA

Professor & Chairman DOS in Environmental Science University of Mysore, Manasagangotti Mysore-570 006, INDIA

UNIVERSITY OF MYSORE

DEPARTMENT OF STUDIES IN ENVIRONMENTAL SCIENCE

MANASAGANGOTHRI, MYSURU - 570006, KARNATAKA, INDIA

Dr. ABHILASH M R

Ph.D., CChem., MRSC (London).

Phone: 0821-2419555 Mob: 09141106393

Email: abhilash@envsci.unj-mysore.ac.in

Chartered Chemist Former, DST- INSPIRE Fellow (SRF)

CERTIFICATE

This is to certify that thesis entitled "DEVELOPMENT OF A CHARGING INFRASTRUCTURE ECOSYSTEM FOR EXPANSION OF ELECTRIC VEHICLES ADOPTION TO REDUCE OUR CARBON FOOTPRINT AND AIR POLLUTION", is submitted for the degree of MASTER OF SCIENCE (M. Sc) IN ENVIRONMENTAL SCIENCE of the University of Mysore, Mysuru. This work is a Bona fide and authentic record of research work carried out by NITHESH A, (P01ZZ21S0565) under my guidance and supervision. Further, I declare that, it has not been submitted before for the award of any degree/ diploma/ associateship/ fellowship or any other similar title.

Place: Mysuru

Date: 02-09-2023

Ph.D., CChem., MRSC (London)

Chartered Chemist

UNIVERSITY OF MYSORE

DEPARTMENT OF STUDIES IN ENVIRONMENTAL SCIENCE

MANASAGANGOTHRI, MYSURU - 570006, KARNATAKA, INDIA

Dr. G.V. VENKATARAMANA

M.Sc., M.Phil. Ph.D.

Professor and Chairman

Phone: 0821-2419555 Mob: 09449783471

Email: Venkataramana a envsci uni-mysore ac in

CERTIFICATE

This is to certify that thesis entitled "DEVELOPMENT OF A CHARGING INFRASTRUCTURE ECOSYSTEM FOR EXPANSION OF ELECTRIC VEHICLES ADOPTION TO REDUCE OUR CARBON FOOTPRINT AND AIR POLLUTION", is submitted for the degree of MASTER OF SCIENCE (M. Sc) IN ENVIRONMENTAL SCIENCE of the University of Mysore, Mysuru. This work is a Bona fide and authentic record of research work carried out by NITHESH A, (P01ZZ21S0565) under my guidance and supervision of Dr. ABHILASH M R., Department of studies in Environmental Science, University of Mysore, Manasagangothri, Mysore.

Place: Mysuru

Date: 04/09/2023

Professor and Chain Dr. G.V. VENKATA

M Sc M Phil Ph D Professor & Chairman DOS in Environmental Science University of Mysore, Manasagangotri Mysore-570 006, INDIA