Structural and computational study on the role of the various interactions towards the formation of dimers

Project report submitted to the University of Mysore for the award of the degree of

Master of Science

in Physics

By Shyambhargav J. S. (PY120300)

Vijayashree N Hegde (PY120308)

Research Guide

Prof. Lokanath N. K.

Department of Studies in Physics University of Mysore, Manasagangotri Mysuru 570 006

August 2022

DECLARATION

We, Shyambhargav J. S. and Vijayashree N. Hegde, hereby declare that the project report entitled "Structural and computational study on the role of the various interactions towards the formation of dimers" is the result of research work done by us in fourth semester of the Masters degree in physics under the supervision of Dr. Lokanath N. K., Professor, Department of Studies in Physics, University of Mysore, Manasagangotri, Mysuru. We are submitting this project report for possible award of the degree of Master in Science (M.Sc.) in Physics of the University of Mysore, Mysuru, India. I further declare that this research work or any part of it has not been submitted for the award of any other degree, diploma or associateship of this or any other University or Institution.

Candidate signature:

2. Hipyerstry

Dr. N.K.Lokanath
Professor of Physics
Department of Studies in Physics
University of Mysore, Manasagangotri
Mysore-570 006, INDIA.

Chairman