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CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled “**Structural, Electronic and Vibrational Properties of Functionalized Graphene Quantum Dots Using Density Functional Theory**” being submitted to The Maharaja Sayajirao University of Baroda, Vadodara for the award of Doctoral degree in Physics is report of bonafied research carried out by **Ms. Vaishali Sharma**, under my guidance and supervision, in the Department of Physics, The Maharaja Sayajirao University of Baroda, Vadodara.

I further certify that the work has not been submitted either partly or fully to any other University/Institution for the award of any degree.

Place: Vadodara

Date: /07/2020

(Prafulla K. Jha)

Research Advisor