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CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled “**Tailoring electronic, mechanical and dynamical properties of two dimensional materials 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 **Mr. Som Narayan**, 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.

Date: 21/11/2019

Place: Vadodara

(Prafulla K. Jha)

Research Advisor