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CERTIFICATE BY THE SUPERVISOR

This is to certify that the thesis entitled **"First principles and Raman Spectroscopic Investigation on some Geologically Important Materials"** being submitted to The Maharaja Sayajirao University of Baroda, Vadodara by **Sharad Babu Pillai** for the award of Doctoral degree in **Physics** is a report of original research work and has been carried out by the candidate under my guidance and supervision.

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

(**Prafulla K. Jha**)
Supervisor

Place: Vadodara
Date: 07/07/2021