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CERTIFICATE BY THE SUPERVISOR

This is to certify that the thesis entitled “**Investigation of structural, electronic, magnetic and dynamical properties of transition metal doped delafossite-type oxides**” being submitted to The Maharaja Sayajirao University of Baroda, Vadodara by **Deepak Kumar Upadhyay** for the award of Doctoral degree in **Applied 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

(Arun Pratap)

SUPERVISOR

Place: Vadodara

Date: /02/2021