

**LUMINESCENCE STUDIES OF RARE EARTH  
DOPED PEROVSKITE PHOSPHORS**

**A THESIS SUBMITTED TO**



**THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA  
FOR THE AWARD OF THE DEGREE OF**

**Doctor of Philosophy**  
**IN PHYSICS**

**BY**

**DEGDA NARESHKUMAR JETHABHAI**

**(REGISTRATION NO: FOS/2203)**

**UNDER THE SUPERVISION OF**

**PROF. M. SRINIVAS**

**DEPARTMENT OF PHYSICS**

**FACULTY OF SCIENCE**

**THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA**

**VADODARA, GUJARAT-390002**

**NOVEMBER-2023**