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This is to certified that the work contained in the thesis titled “*Synthesis and Characterization of Undoped and Doped Strontium Cerate Perovskite Oxides SrCeO<sub>3</sub>*” by **Mr. Dharmendra Yadav** (Roll No. **15171003**), in partial fulfillment of the requirement for award of degree of **Doctor of Philosophy** at **Indian Institute of Technology (B.H.U) Varanasi**, is a record of his own work carried out under my supervision and guidance and that this work has not been submitted elsewhere for a degree.

It is further certified that the student has fulfilled all the requirements of Comprehensive Examination, Candidacy and SOTA for the award of Ph.D. Degree.

**Signature:**

**Supervisor**

(Dr. Shail Upadhyay)

Associate Professor

Department of Physics

Indian Institute of Technology

(Banaras Hindu University)



### **DECLARATION BY THE CANDIDATE**

I, **Dharmendra Yadav** (Roll No. 15171003), certify that the work embodied in this thesis is my own bonafide work and carried out by me under the supervision of *Dr. Shail Upadhyay* from 2015 to 2020, at the *Department of Physics*, Indian Institute of Technology Varanasi. The matter embodied in this thesis has not been submitted for the award of any other degree/diploma. I declare that I have faithfully acknowledged and given credits to the research workers wherever their works have been cited in my work in this thesis. I further declare that I have not willfully copied from any other's work, paragraphs, text, data, results, *etc.*, reported in journals, books, magazines, reports dissertations, theses, *etc.*, or available at websites and have not included them in this thesis and have not cited as my own work.

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Signature of the Student

(Dharmendra Yadav)

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It is certified that the above statement made by the student is correct to the best of our knowledge.

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(Dr. Shail Upadhyay)

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