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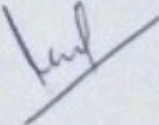


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It is certified that the work contained in the thesis titled "*Synthesis and Characterization of $BaTi_{1-x}Sn_xO_3$ ($x \leq 0.40$) System and its Composites*" by Mr. Md Jawed Ansaree (Roll No. 12610EN006), in partial fulfillment of the requirement 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.

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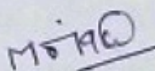


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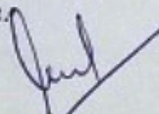
I, **Md Jawed Ansaree** (Roll No. 12610EN006), certify that the work embodied in this thesis is my own bona fide work and carried out by me under the supervision of *Dr. Shail Upadhyay* from 2012 to 2017, at the *Department of Physics*, Indian Institute of Technology, Varanasi. The matter embodied in 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.

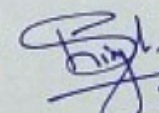
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Signature of the Student
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CERTIFICATE BY THE SUPERVISOR

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


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Signature of Head of Department
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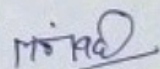
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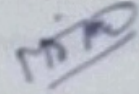

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In the last but not least I am very thankful to my friend and lab mate- Upendra Kumar, Dr. Subhashish Tiwari, Dr. P. Kumar and Dharmendra Kumar for providing company during the Ph.D. research work.

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Md Jawed Ansaree