

**SYNTHESIS, CHARACTERIZATION AND MECHANICAL PROPERTIES OF
ZrB₂-BASED COMPOSITES IN Zr-C-Si SYSTEM FOR ULTRA-HIGH-
TEMPERATURE APPLICATIONS**



A thesis submitted in partial fulfillment
for the Award of Degree

Doctor of Philosophy

By

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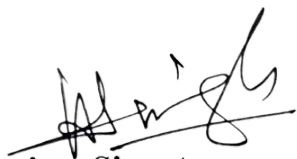
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Date of Submission: 02-04-2024



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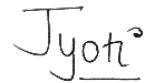
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I, **JYOTI**, certify that the work embodied in this thesis is my bonafide work and was carried out by me under the supervision of **Professor Vinay Kumar Singh** from **2019 to 2024**, at the Department of Ceramic Engineering, Indian Institute of Technology (Banaras Hindu University) Varanasi. The matter embodied in this thesis has not been submitted for any other degree/diploma award.

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Certificate by the Supervisor and Head of the Department

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



Signature of Supervisor

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