

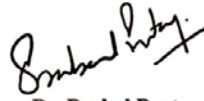
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## DECLARATION BY THE CANDIDATE

I, " **Ajay Kumar Pandey** ", certify that the work embodied in this thesis is my own bona fide work and was carried out by me under the supervision of **Dr. Saurabh Pratap** from "2022" to "2024", at the **Department of Mechanical Engineering (Industrial Management), Indian Institute of Technology (BHU), 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 wilfully copied any other's work, paragraphs, text, data, results, etc., reported in journals, books, magazines, reports dissertations, theses, etc., or available on websites and have not included them in this thesis and have not cited as my own work. I further declare that I will own the responsibility for any plagiarism if found at a later stage.

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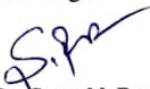
  
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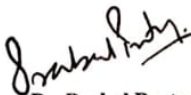
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## CERTIFICATE BY THE SUPERVISOR(S)

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

  
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Date: 03/12/2024

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