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## Dr. Dhananjay Kumar Srivastava

Assistant Professor

10th March 2023

### **TO WHOMSOEVER IT MAY CONCERN**

I support the application of **Mr. Adarsh K P** for application to the Joint Ph.D. program between IIT Kharagpur and the University of Manchester to undertake a research project on Green Cooling and Net Zero: A Novel Sustainable Air Conditioning System using Transcritical CO<sub>2</sub>-based Refrigeration Technology.

I have known Adarsh K P as Teaching Assistant in Gas Dynamics Laboratory and he successfully trained final year Bachelors students from Mechanical Engineering Department to conduct the experiment with comprehensive theoretical explanations. Adarsh has consistently demonstrated remarkable analytical and critical thinking skills in his academic pursuits, earning top grades in challenging coursework. He has shown a strong grasp of the fundamentals in his field and a keen interest in exploring complex phenomena. His curiosity, creativity, and passion for research make him a natural fit for the joint Ph.D program, where he can further develop his expertise and contribute to cutting-edge research in the field.

In conclusion, I strongly recommend Adarsh K P for admission to the joint Ph.D. program between the Indian Institute of Technology Kharagpur and the University of Manchester. He is an exceptional candidate who would be an asset to this program, and I am confident that he will make valuable contributions to the field of Refrigeration and Air Conditioning throughout his career.

Thank you

Dhananjay Kumar Srivastava