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Date: 19/10/2022

CERTIFICATE

This is to certify that the Ph.D. dissertation entitled "*Study the Effect of "Mn" in Magnesium & Magnesium based Alloys*" is submitted by Sonam Mukeshkumar Patel in partial fulfilment of the requirements for the award of **DOCTOR OF PHILOSOPHY** in Metallurgical and Materials Engineering Department to The Maharaja Sayajirao University of Baroda, has been carried out by her in the Metallurgical and Materials Engineering Department, Faculty of Technology and Engineering, The M. S. University of Baroda, Vadodara under guidance of Dr. Vandana J. Rao. In my opinion the standard fulfilling the requirements of PhD degree as prescribed in the regulations of the university has been attained. The matter presented in this Ph.D. dissertation has not been submitted for the award of any other degree or diploma anywhere.

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CERTIFICATE FOR ANTI PLAGIARISM

This is to certify that the Ph.D. Thesis entitled "*Study the Effect of "Mn" in Magnesium & Magnesium based Alloys*" is submitted by Sonam Mukeshkumar Patel has been checked for antiplagiarism test by Urkund software provided by The M. S. University of Baroda. After checking, it is found that only 1% of similarity which is below the allowable plagiarism notified by the University Grants Commission. This research work has been carried out by Sonam Mukeshkumar Patel under my supervision, Metallurgical and Materials Engineering Department, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara.

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