



Metallurgical and Materials Engineering Department
(Recognised by UGC for DRS & COSIST and DST (FIST) Programmes)

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MET & MATS/

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CERTIFICATE

This is to certify that the Ph.D. thesis entitled “Processing and characterization of in-situ aluminium matrix composite by stir casting method” which is prepared and submitted by **Mr. Hemantkumar Narendrabhai Panchal** (Reg. No. 92, dated 27/11/2013) in the partial fulfillment of the requirements for the degree of **DOCTOR OF PHILOSOPHY** in Metallurgical and Materials Engineering to The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat (INDIA) is the record of investigations carried out by him in the Metallurgical and Materials Engineering department, Faculty of Technology and Engineering, Kalabhavan, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat (INDIA) under the guidance and supervision of **Dr. Vandana J. Rao**. This research work has attained the standard fulfilling the requirements of the Ph.D. degree as prescribed in the regulations of the University. The matter presented in this Ph.D. work has not been submitted elsewhere for the award of any other degree or diploma.

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