



Metallurgical and Materials Engineering Department
[Recognised by UGC for DRS & COSIST Programme]

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CERTIFICATE

This is to certify that the thesis entitled, **“CHARACTERIZATION OF COLD BONDING AND FUNDAMENTAL STUDIES ON REDUCTION SMELTING OF IRON ORE-COAL COMPOSITE PELLETS”**, submitted by **RAMESHWAR SAH** in fulfillment of the requirements for the degree of **DOCTOR OF PHILOSOPHY** in **Metallurgical Engineering** is a bonafide record of investigations carried out by him in the Department of Metallurgical and Materials Engineering, Faculty of Technology and Engineering, M. S. University of Baroda, Vadodara under my guidance and supervision. In my opinion, this has attained the standard fulfilling the requirements of the Ph.D. degree as prescribed in regulations of the University.

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