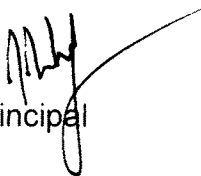


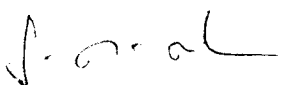
## CERTIFICATE

This is to certify that the thesis, entitled "**Certain Studies on Energy Optimization in Air-Conditioning Systems**" submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of Doctor of Philosophy in **Mechanical Engineering** is a record of original research work done by **Mr. S.P.Vendan** during the period from **November 2000 to October 2006** of his study in the **Department of Mechanical Engineering** at **PSG College of Technology, Coimbatore**, under my supervision and guidance and the thesis has not formed the basis for the award of any other Degree/Diploma/Associateship/Fellowship or other similar title to any candidate of any University.

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