

# **OPERATIONAL CHARACTERISTICS OF UPFLOW ANAEROBIC SLUDGE BLANKET REACTOR DURING AND AFTER STARTUP**

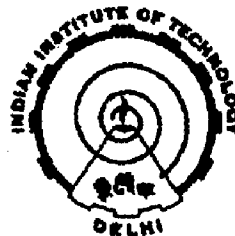
**A dissertation submitted**

**by**

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**in partial fulfillment of the requirement for  
the degree of**

**Doctor of Philosophy**



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## CERTIFICATE

I am satisfied that the thesis entitled “Operational Characteristics of Upflow Anaerobic Sludge Blanket Reactor during and after startup” submitted by Mr.V.Venkata Praveen is worthy of consideration for the award of the degree of Doctor of Philosophy and is a record of the original bonafide research work carried out ,by him under my guidance and supervision and that the results contained in it have not been submitted **in part** or full to any university or Institute for the award of any degree.

*K. B. Ramachandran*

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Professor

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