

BONAFIDE CERTIFICATE

Certified that the thesis is the bonafide work of Mr. Venkatesh Gopal K. who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date:

Madras 25



Signature of the

Ph.D. Supervisor