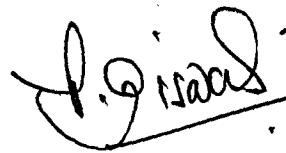


CERTIFICATE

This is to certify that the research carried out by Shri Utpal Kumar Mandal for the preparation of this thesis entitled, “Nonlinear Vibrations of Structures Including Thermal Loading” has been supervised by me. The original thesis was submitted to the University of North Bengal in partial fulfillment of the requirements for the Ph. D. (Civil Engineering) degree, and was not been submitted for a degree elsewhere.

However, in the light of the valuable comments and observations made by one of the honourable Examiners of the original thesis, Shri U. K. Mandal has completed revision of the thesis and he is now submitting the revised thesis to the University of North Bengal with reference to the Registrar’s letter having Ref. No. 168/Ph. D./C. Engg./1646(R) 04(2) dated 11th August 2004.



30 Sept, 2005

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