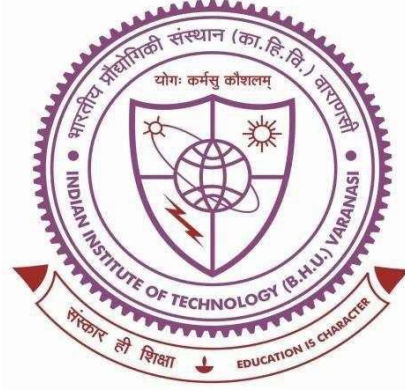


**DEVELOPMENT OF A TIME-DEPENDENT CONSTITUTIVE
MODEL AND AN EXPLICIT CAVING SIMULATION
APPROACH FOR STABILITY EVALUATION OF
DEPILLARING PANEL**



**Thesis submitted in partial fulfilment for the
Award of Degree**

Doctor of Philosophy

By

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