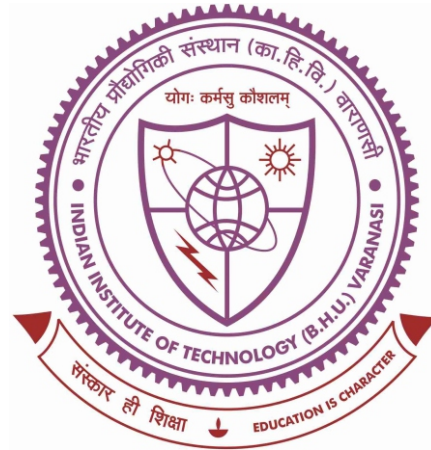


**EVALUATION OF BLAST INDUCED GROUND VIBRATION  
AND POWDER FACTOR IN SURFACE LIMESTONE  
QUARRIES USING STATISTICAL  
AND ANN APPROACH**



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

**Doctor of Philosophy**

**By**

***Punit Paurush***

**DEPARTMENT OF MINING ENGINEERING  
INDIAN INSTITUTE OF TECHNOLOGY  
(BANARAS HINDU UNIVERSITY)  
VARANASI- 221005  
INDIA**

**Roll No. 15151006**

**2021**