

## APPROVAL FORM

### THESES/DISSERTATION and INSTITUTIONAL REVIEW BOARD APPROVAL

This is to certify that the thesis ☒ entitled:  
A NEW PREDICTION AND PREVENTION APPROACH FOR TRENCH EXCAVATION CAVE-INS

presented by Krupesh S. Kakkente

has been accepted towards fulfillment of the requirements for the  
master's ☒ degree in **Construction Management** ☒

University and federal policies and procedures require that all research involving human or animal subjects receive prior approval from the appropriate review board. [See Faculty Handbook (<http://www.hr.msu.edu/documents/facacadhandbooks/facultyhandbook/index.htm>) and the Academic Programs book (<http://www.reg.msu.edu/AcademicPrograms/>).

#### HUMAN SUBJECTS

Does the thesis or dissertation you are submitting include research involving human subjects or materials of human origin? (Research involving human subjects includes surveys and telephone interviews used for research; materials of human origin include human blood and /or tissue.)

☐ Yes IRB Log Number: \_\_\_\_\_  
☒ No

If **yes**, indicate Institutional Review Board (IRB) log number for the approved protocol and attach the Institutional Review Board approval letter for that protocol to this form.

#### ANIMAL SUBJECTS

Does the thesis or dissertation you are submitting include research involving vertebrate animals in any way?

☐ Yes AUF Number: \_\_\_\_\_  
☒ No

If **yes**, and an animal use form was submitted to the Institutional Animal Care & Use Committee (IACUC), please list the approval number below and attach a copy of the IACUC approval letter to this form.

If **yes**, but your project did not need an animal use form, provide a copy of the letter from the IACUC which cites the relevant exclusionary policy.

This thesis/dissertation and the information presented above are approved by the faculty advisor/major professor.

☒ Yes

☐ No

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Degree List