Department of Civil Engineering

Report on Poster Presentation by

M.Tech Students (Structural Engineering)

2nd International Conference on Emerging Research in Civil, Aeronautical & Mechanical Engineering-ERCAM 2019

Name of students & Guide

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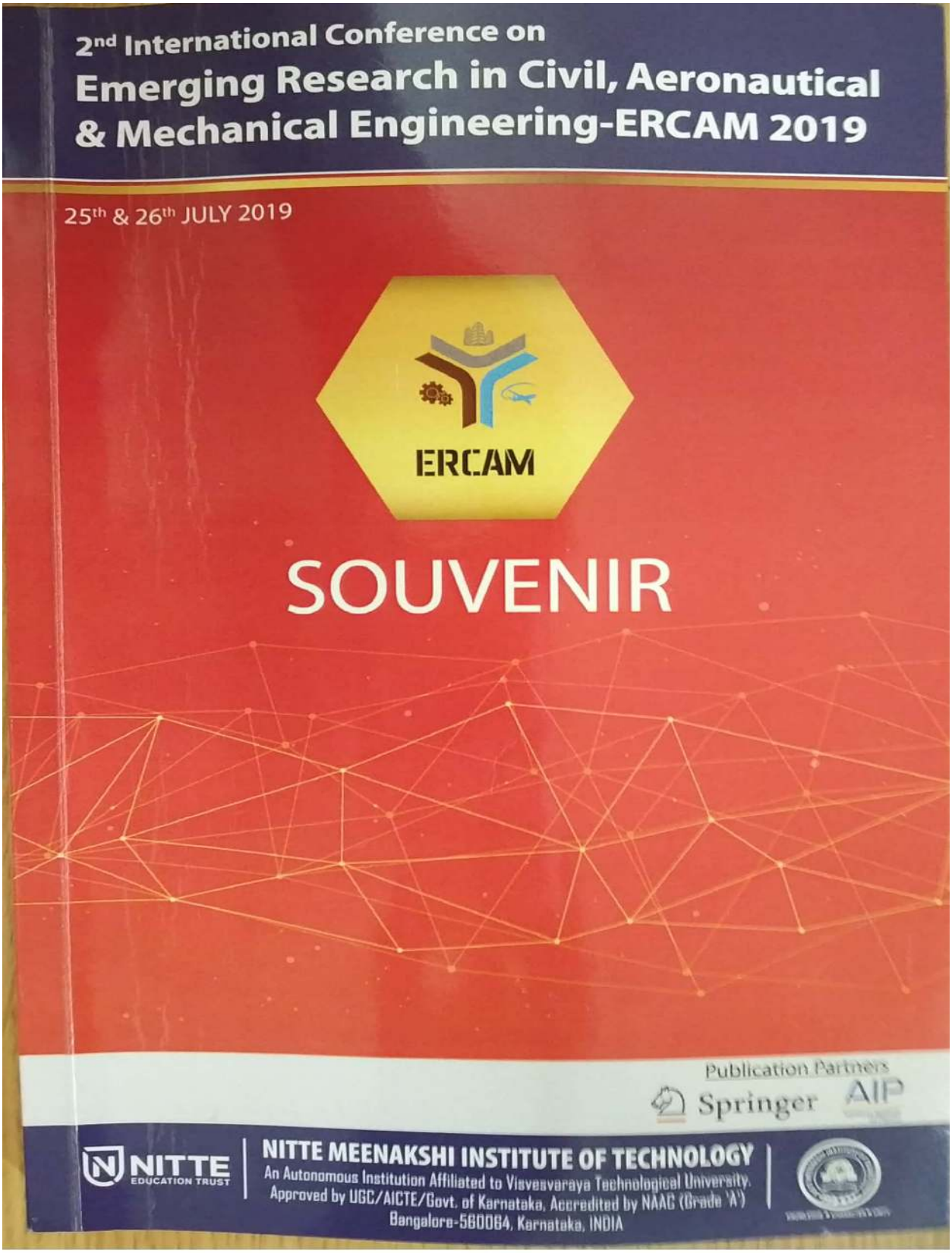
A Paper has been selected from M.Tech 1st year (Structural Engineering) students as a poster presentation in 2nd International Conference on Emerging Research in Civil, Aeronautical & Mechanical Engineering-ERCAM 2019 at NITTE Meenakshi Institute of Technology, Bengaluru, India on 25th & 26th July 2019. The detailed schedule is attached separately.

The Paper is published in AIP journal (American Institute of Physics).

Hemish V. Parmar, Nilay K. Patel and Himesh R. Rana at NITTE- Banglore (Poster Presentation)

Memories with Dr. Bharathi Ganesh (Professor & Head, Department of Civil Engineering, NITTE, Bangaluru)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International Conference on "Emerging Research in Civil, Aeronautical & Mechanical Engineering" (ERCAM-2019)

Study on Soil-Structure Interaction of Raft Foundation for a Vertically Irregular structure

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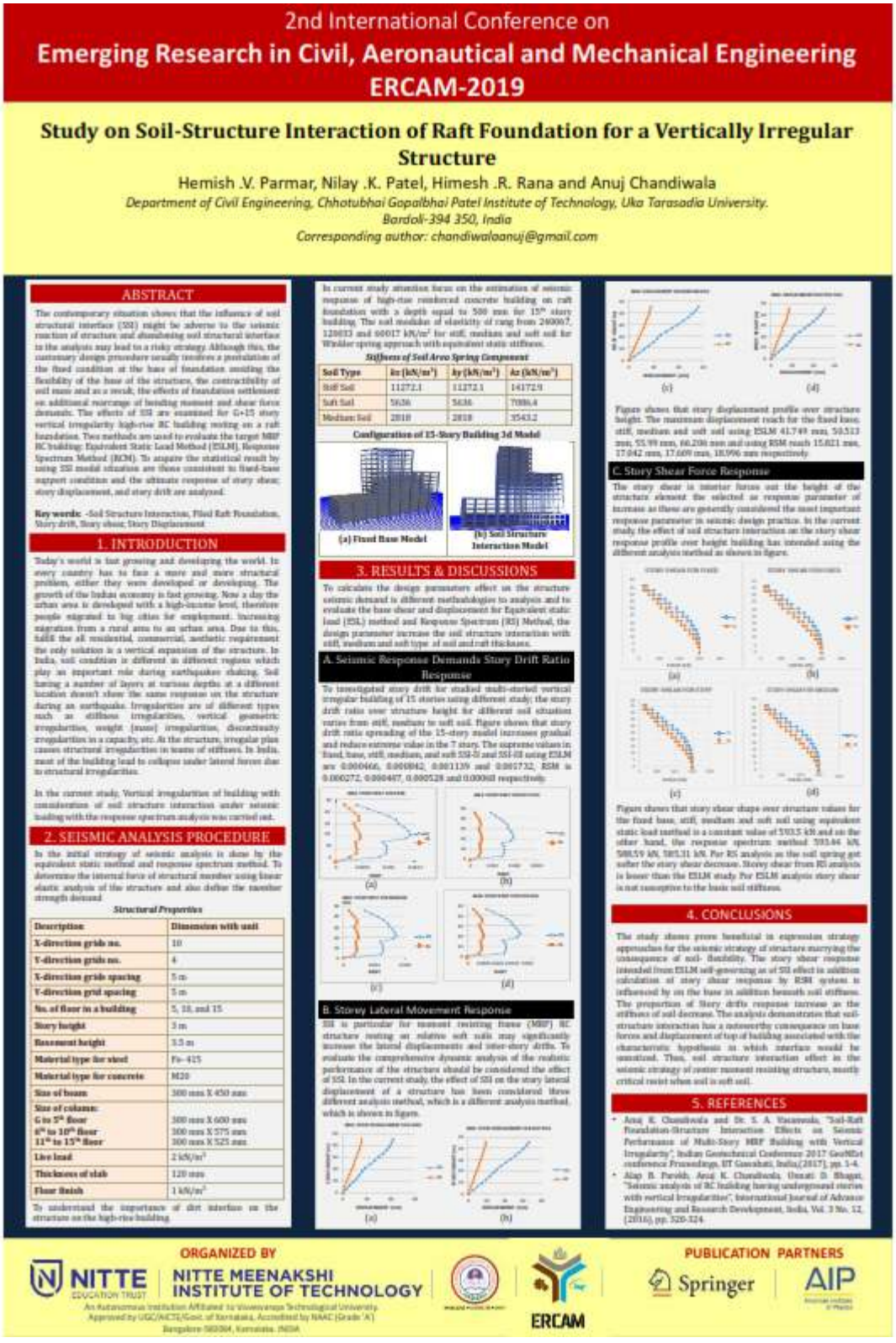
Abstract: The contemporary situation shows that the influence of soil structural interface (SSI) might be adverse to the seismic reaction of structure and abandoning soil structural interface in the analysis may lead to a risky strategy. Although this, the customary design procedure usually involves a postulation of the fixed condition at the base of foundation avoiding the flexibility of the base of the structure, the contractibility of soil mass and as a result, the effects of foundation settlement on additional rearrange of bending moment and shear force demands. The effects of SSI are examined for G+15 story vertical irregularity high-rise RC building resting on a raft foundation. Two methods are used to evaluate the target MRF RC building: Equivalent Static Load Method (ESLM), Response Spectrum Method (RCM). To acquire the statistical result by using SSI modal situation are those consistent to fixed-base support condition and the ultimate response of story shear, story displacement, and story drift are analyzed.

Abstract- Study on Soil-Structure Interaction of Raft Foundation for a Vertically Irregular Structure

Group photo with *Mr. Sridhar R*. (General Manager, India Technical Center, Federal Mogul Goetze, India) & *Prof. Virupaxi Auradi* (Mechanical Depatment, Siddaganga Institute of Technology, Tumkur)



Poster on *"Study on Soil-Structure interaction of Raft Foundation for a Vertical Irregular Structure".*

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This is to Certify that Dr. / Mr. / Ms. Hemish Parmar has presented a research paper titled Earthquake Analysis of Multi Storied reinforced concrete moment Resistant Building the vatical Irregularity considering Soil Structure Interaction for raft Foundation at 2nd International conference on 'Emerging Research in Civil, Aeronautical & Mechanical Engineering' held on 25th & 26th July, 2019 at Nitte Meenakshi Institute of Technology, Bengaluru, India, published in conference proceedings by Springer and AIP

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