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## Center of Excellence in Geotechnical Earthquake Engineering and Soil Dynamics at IIT Roorkee

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# Center of Excellence in Geotechnical Earthquake Engineering and Soil Dynamics at IIT Roorkee

## A. Personnel

1. Relevant Faculty of Civil, Earthquake, Mechanical and other Departments
2. Outside Institution Faculty and Participation: IITB, IITD and
3. Others

## B. Live Problems

1. Vibration Problems of High Speed Railway
2. Liquefaction of Sands and Clays
3. Soil-Structure Interaction Problems of Via Ducts with Track and Supporting Soil
4. Effect of Bridge Foundation and Soil Interaction
5. Dynamics of Pile Foundations
6. Seismic Design of Retaining Structures
7. Slope Failures and Land Slides
8. Vibration Problems in Habitats and
9. Others

## C. Suggested Funding / Cooperating Organizations

1. Ministry of Earth Sciences
2. Dept. of Railways
3. National Disaster Management Authority  
and
4. Others

## D. Outside Cooperating & Funding Agencies

1. NEES, USA
2. NSF, USA
3. University of Greece, Athens
4. University of Dundee, U.K.
5. University of California, Berkeley and
6. Others

## E. Suggested duties of Faculty / Professor-In-Charge of the Center

1. Full Time Devotion for the Promotion of the Center
2. Funding from Appropriate Agencies
3. Appointment of Appropriate Faculty and Research Personnel against Soft Money and
4. Others