

SITE CHARACTERIZATION FOR Seismic Ground Response Assessment

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Local site conditions have a significant effect on the ground response during seismic excitations.

We plan, conduct, and supervise the site-specific geologic, geotechnical and geophysical investigation programs, as well as interpret the results of such programs to obtain the input data needed for seismic analysis and design.

- Enable understanding and interpretation of recorded seismic data.
- Obtain a site-specific soil model that is essential for seismic analysis & design.
- Identify potentially problematic site conditions and develop appropriate geotechnical solutions.

Site Characterization for Seismic Response

SITE INVESTIGATION SPECIFICS & GUIDELINES

We plan, conduct, and supervise the site-specific geologic, geotechnical, and geophysical investigation programs. We have expert knowledge on a variety of field and laboratory methods – ranging from relatively simple methods to state-of-the-art techniques– to evaluate dynamic soil and rock engineering properties.





SITE CHARACTERIZATION FOR SEISMIC STATIONS

We characterize local soil conditions at each seismic ground motion station location to provide the seismic wave velocity model and the dynamic properties of materials, including the quantification of uncertainties involved.

SITE MODELLING FOR SEISMIC ANALYSIS & DESIGN

We can deliver the level of details expected from a site characterization study based on whether it is required for seismic analysis of a critical structure such as nuclear power plant and similar or microzonation purposes.





IDENTIFICATION OF POTENTIAL SITE PROBLEMS & SOLUTIONS

We identify and provide solutions for various potentially problematic site conditions such as liquefaction susceptibility, landslide opportunity, underground cavities etc.

222 Vista Ave., Pasadena, CA 91107 USA Telephone: +1-626-795-2220 Fax: +1-626-795-0868 E-mail: sales@kmi.com