

## Enhancing Our Capabilities in Seismic Geotechnical Analysis with LiqSVs

At Cengrs Geotechnica Pvt. Ltd., we are committed to leveraging the latest technology to provide precise and reliable geotechnical solutions. In this context, we are thrilled to announce the addition of **LiqSVs** to our suite of geotechnical analysis tools.

LiqSVs is a software developed by GeoLogismiki for assessing liquefaction potential of soils using both standard penetration test (SPT) blow counts and shear wave velocity  $V_s$  data. With seismic hazard increasingly becoming a key consideration in foundation design, this tool enhances our ability to provide safe and reliable geotechnical recommendations for critical infrastructure.

### Our Capabilities with LiqSVs:

- **Comprehensive Liquefaction Analysis:** LiqSVs allows for robust liquefaction analysis using widely accepted methods such as NCEER and Boulanger & Idriss.
- **Dual Data Input:** The software uniquely integrates both SPT and  $V_s$  field data, providing a more holistic and accurate understanding of subsurface conditions and their susceptibility to liquefaction.
- **Geotechnical Design & Risk Mitigation:** By precisely quantifying liquefaction potential, we can design more resilient foundations, specify appropriate ground improvement techniques, and develop effective mitigation strategies for projects in seismically active regions.
- **Estimation of Ground Deformations:** LiqSVs goes beyond simply identifying liquefaction risk. It provides critical estimations of vertical/lateral displacements induced by soil liquefaction as well as liquefaction potential index (LPI).

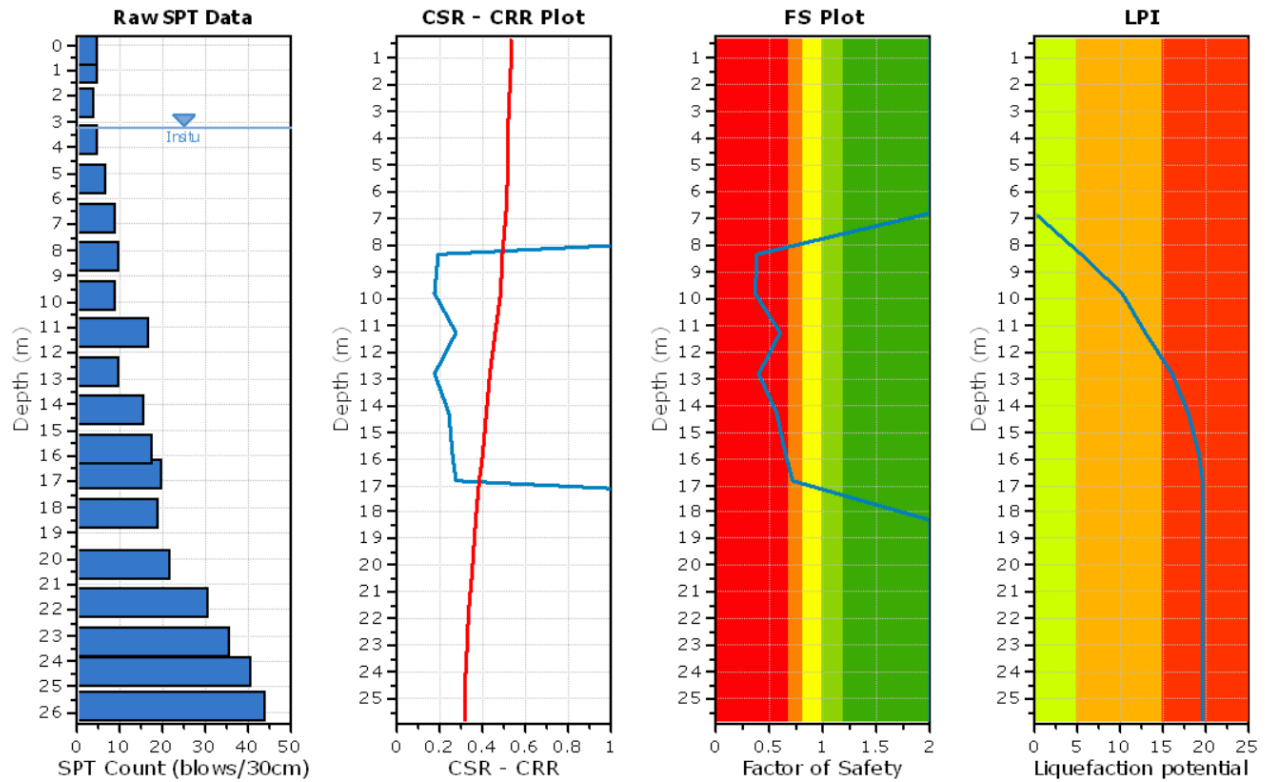
### Benefits to Our Clients:

- Improved accuracy and reliability in seismic risk evaluation of sites.
- Identification of critical depths and zones susceptible to liquefaction.
- Optimized foundation design and ground improvement measures for structures in seismic zones.
- Timely, visual, and detailed presentation of analysis results.

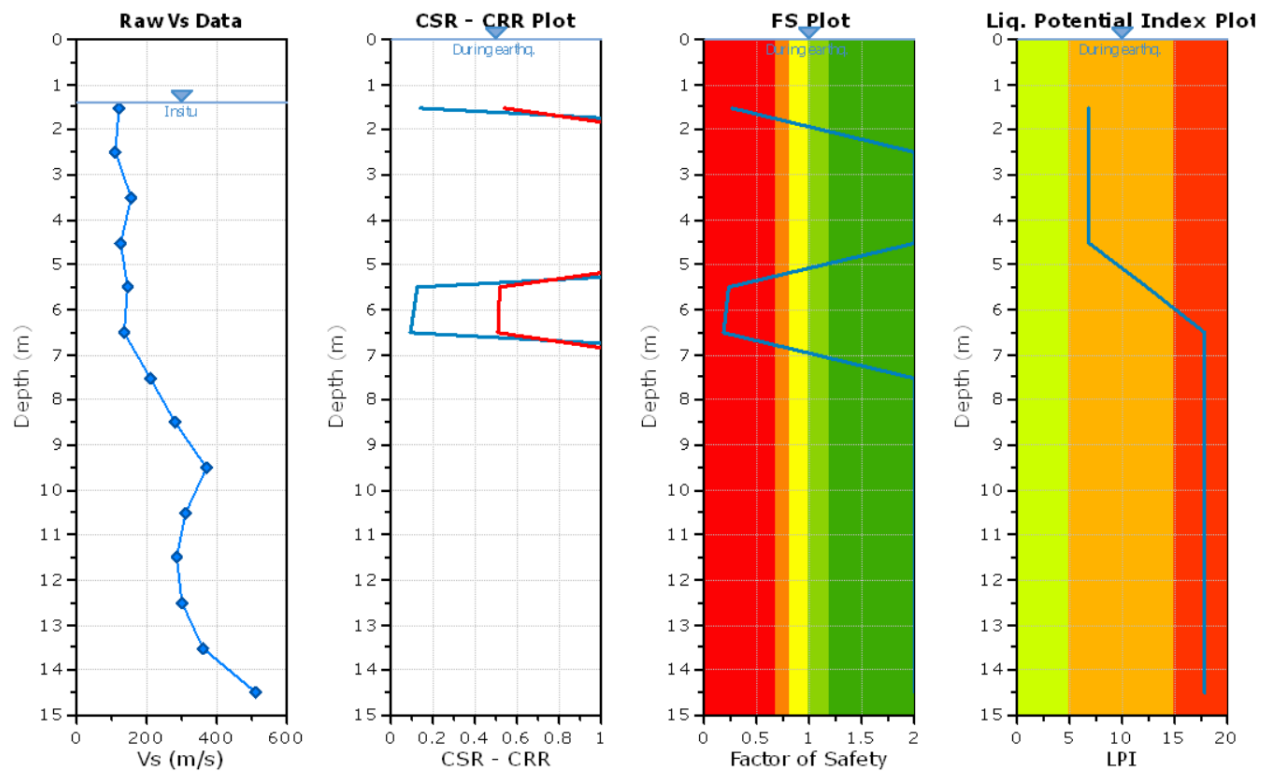
At Cengrs, we continuously invest in advanced tools and techniques to uphold our commitment to providing cutting-edge geotechnical engineering services for our clients. With LiqSVs, we take another step forward in delivering safe and performance-driven foundation solutions.

Are you looking for detailed liquefaction analysis and reliable seismic foundation design for your projects? Contact Cengrs Geotechnica Pvt. Ltd. ([contact@cengrs.com](mailto:contact@cengrs.com)) today to discuss how our enhanced capabilities can benefit you!

#Cengrs #LiquefactionAnalysis #SPT #ShearWaveVelocity #LiqSVs #InnovationInEngineering  
#EngineeringExcellence



**SPT-based liquefaction analysis using LiqSVs for a project site in Kachchh, Gujarat**



**Vs-based liquefaction analysis using LiqSVs for a project site in Kachchh, Gujarat**