RIZZO Associates (RIZZO) performed thorough geotechnical investigations for Kallpa I (180 MW) in 2006, Kallpa II (194 MW) in 2007, and Kallpa III (194 MW) in 2009, which ultimately led to concrete mat foundations as the recommended design for the Power Block at each plant. In addition, RIZZO provided construction supervision services as the foundation mats were poured. Chilca, Peru, located about 50 km south of Lima along the Pan-American Highway, is characterized by desert climates. The $270M Kallpa Project consists of three simple cycle natural gas power plants adding up to 568 MW of installed capacity.

RIZZO was also in charge of reviewing seismic calculations submitted by the vendors of all major plant components within and around two of the plants. Given the high seismicity of the region, site-specific factors of safety were developed for this Project, considering Peruvian (NTE) and American (UBC) building codes. RIZZO developed the Seismic Certification for Kallpa II and Kallpa III.

The Kallpa Project is an essential source of energy for domestic and international consumers. When the third unit (Kallpa III) enters commercial operation in early 2010, it will make Kallpa the largest gas-fired operation in Peru.

**RIZZO Services:**

- Borehole Exploration
- Topographic Survey
- Site contamination assessment
- Mineralogical Analysis
- Seismic assessment
- Geologic assessment
- Conceptual design of foundation
- Geophysical Exploration