Assuming that you won a contract to evaluate the consolidation settlement of the Leaning Tower of Pisa.

The total weight of the Tower is 141,640 kN (or 142 MN) and the center of gravity is 22.5 m from the base, currently at an inclination of 5.6 degrees. This generates the minimum and maximum contact pressures of 70 kPa and 950 kPa, respectively, at the foundation.

The properties of soil layers are given below. Assume Gs of the soils as 2.65 and the angle of internal friction of top sand layer to be 32°.