Introduction and Statement of the Problem

As it is known, Cyprus does not have enough hospitals and equipment against any pandemic disease. Therefore, the implementation of this project is extremely important for the well-being and safety of students living on the campus. The fact that local people living outside the campus will benefit from this project will increase the prestige of the university. There are three main advantages of container hospital: first of all, it is the fastest way for the project to start patient acceptance, secondly, the strength and durability of the building is another factor, lastly, the construction of the hospital with the most economical method is using containers.

Aspects of the Project

Analysis shows the bending moment diagram of the structure using ETABS 18V as well as the axial forces for Staircases Using SAP2000.

Soil pressure is less than the allowable bearing pressure so everything is within limits using SAFE 12.

Every twist lock acts in three different directions as a spring element. The values of stiffness were derived through the use of tri-dimensional solid elements. These were designed to resist torsion, compression and tension loads.

Wind analysis shows the forces on the structure generated by wind loading and all forces are within limits using Robot Structural Analysis.

Demand and capacity shows that the structure is safe to use as all requirements of the structure are less than the capacity.

Cost estimated for the Project is 34145800 TL.