Under floor air conditioning system had been used for many years in the computer area. The main aim of this report is to study the thermal comfort and quality of air in the computer area so as to identify the possibility of employing under floor air conditioning system in the office environment.

An Indoor Air Quality (IAQ) audit and ventilation analysis was performed in the computer area. Indoor air pollutants such as biological, particulate and chemical pollutant were measured. The age of air concept is used in the determination of the various ventilation parameters. Computational Fluid Dynamics is also used to study the temperature and velocity profile in the room.

IAQ audit and ventilation analysis concluded that no adverse health effect was found using under floor air conditioning system. CFD result revealed that under floor air conditioning system had good pollutant and heat removal efficiency. With the advent of CFD technology, the ventilation efficiency and energy consumption can be simulated to support the usage of under floor air conditioning system.