

Abstract: A case history of ground improvement work for Kuala Lumpur International Airport 2

Prefabricated Vertical Drain incorporated with preloading has been used widely as a ground improvement technique in Geotechnical Engineering. The application of Prefabricated Vertical Drain and Preloading has proven to be one of the cheapest methods in ground improvement technique. In this paper, the latter was used for a New Kuala Lumpur International Airport 2 ground improvement. The new Kuala Lumpur International Airport 2 is being constructed on the very soft clay. Due to the nature of the ground, the improvement works by surcharge preloading and prefabricated vertical drains (PVD) was being implemented. This paper will report the case history of ground improvement works base from observation of settlement magnitude using the above technique. Comparison between theoretical calculation and instrumentation observation will be deployed. It was expected that the different in reading is inevitable due to certain constraint in applying the soil parameters obtained from the ground investigation.