ABSTRAC

Road construction for Lamong Bay harbor, Surabaya are on soft soil layer where the condition of the base soil is silt and clay which has depth 9 meters. On that condition could make some problem because of the character of the soil that easily squeezing dan has a weak bearing capacity until it can destroyed construction of the road itself. In order to make a construction road on soft soil layer with no damage, it needs some improvement soil methods which is has function to speed up dan to increase soil bearing capacity so that enough safety factor.

The road that will be design as causeway for teluk lamong Bay. The pavement road design use AASHTO 1981 method, while the methods for soil improvement use PVD, Stone Column, and Pile slab Construction.
The result show that to construct road with Flexible pavement, it take cost Rp. 36,774,492,000,00. For rigid pavement, it cost. Rp. 49,338,050,000,00, while pile slab construction use two type of pile, 0,5 m dan 0,6 m, each take cost Rp. Rp. 59,529,095,000,00 dan Rp.53,560,000,000,00.

Keywords : Soft Soil, Pavement, PVD, Stone Column, Pile Slab, Cost