**COMPARISON OF PRODUCTIVITY AND COSTS OF USING HYDRAULIC STATIC PILE DRIVER AND DIESEL HAMMER PILE**

**(CASE STUDY : JORR II TOLL ROAD PROJECT KUNCIRAN - SERPONG PACKAGE 1 KUNCIRAN - PARIGI)**

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**ABSTRACT**

Indonesia is the fourth most populous country in the world with a population of 261,890,900. With this large amount, transportation mobility is needed to connect the regions in Indonesia. Like in Jakarta Outer Ring Road 2, JORR II or JORR 2 (Jakarta Outer Ring Road 2).

The study aims to compare the productivity and cost of using the Hydraulic Static Pile Driver and Diesel Hammer Pile by finding the number of points embedded in the pile foundation. This is aimed at knowing the value of each stake in the method of carrying out the work of the pile.

The results of this study were obtained in terms of the Hydraulic Static Pile Driver working method. Which tool is more environmentally friendly but the tool productivity cycle is longer. As for the Diesel Hammer Pile working method, the simpler the implementation with faster productivity. In terms of time using the Hydraulic Static Pile Driver, productivity was 11,4 m / hour at a cost of Rp 223,492.00 / m and for Diesel Hammer Pile tools for a period with a total productivity of 16,50068524 m / hour at a cost of Rp 211,052.00 / m.

Keywords: Comparison of Productivity, Cost, Hydraulic Static Pile Driver, Diesel

        Hammer Pile.