UNIVERSITAS INTERNASIONAL BATAM

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ANALYSIS OF COMPARATIVE COSTS AND TIME ON ROAD DRAINAGE WORKS USING THE SYSTEM CAST IN SITU METHOD AND SYSTEM PRECAST METHOD
(Studies : Structuring Projects Baloi Center Road and Raden Patah Road Batam City)

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Abstract

The construction project is a development project activity that is carried out in a limited time and cost-efficient. Work in limited time requires an effective work method in construction work.

Comparison of the method of the work of this channel is carried out on the highway 3 region arrangement project Batam City coincided at the location of the Baloi intersection - the intersection of the fishing village and the broken Raden road. From the results of the analysis of the drainage works, it was concluded that there were 2 working methods, namely in situ cast method / conventional method and precast / precast method. From the two methods, the results of the comparison of costs and prices in the cast drainage work in place and precast drainage are the cost of the cast work in place is Rp. 352,404,140.06 and the cost of the precast work is Rp. 344,977,667.24. From the two methods of work get a difference of Rp. 7,426,472.76 and in terms of time the cast in situ method takes 40 working days while precast takes 22 working days. In terms of cost the conventional method is more efficient while in terms of time the precast method is more efficient.

Keywords: drainage, cost comparison, time comparison, precast, cast Insitu, concrete, SNI