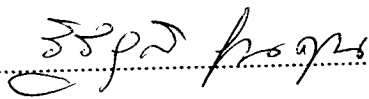


ABSTRACT

Title Duration Estimation of Bridge Maintenance in the Rural Roads
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 21 / 01 / 59

The maintenance of damaged bridge structures on the rural roads were caused by material deterioration and end of the lifetime. They are required precision operation timing. This study estimated the average time to repair the damaged of the bridge with the length of span between 5-12 meters and each pier has 5-7 pillars.

The researchers used data from the department of rural roads where they repaired three bridges in the Rayong in fiscal budget year 2014. The data consisted of a total of repaired 50 pillars. The researcher collected field data from documents reported daily during the operation. This was analyzed and averaged the time of each activity and the work of the project.

The results obtained from this study can be used to estimate the time duration to fix the bridge in the future. The average time for resolving the bridge structure damage was originally 13.468 hour per pillar and by the effective time estimation the fixing rate would be only 10.768 hour/pillar which is 2.7 hours lower per pillar. From the investigation, it is found that maintenance problems are unable to access the field on time, no engineering expert and the limited available working space.