48405306 : MAJOR : ENGINEERING MANAGEMENT

KEY WORD :   BORED PILE CASTING IN WET PROCESS SYSTEM, LOGISTIC
                REGRESSION, ENGINEERING MANAGEMENT TECHNIQUE

THAWATCHAI THAMPETRARAK : AN APPROACH FOR THE EFFICIENCY IMPROVEMENT OF BORED PILE CASTING IN WET PROCESS SYSTEM OF LARGE SIZE CONSTRUCTION PROJECT OF SAMPLE COMPANY. THESIS ADVISORS : ASSOC.PORF. ARNAT WATANASUNGSUIT, Ph.D. 100 pp.

This paper used survey methodology and statistical analysis which was the application of Logistic Regression Analysis to determine the factors affecting to the quality of the bored pile above pile cut-off level of large scale construction project. The quality of 465 sets of data collected form sample construction project of which the response variables were dichotomous. Results showed that the factors of worker preparing slurry solution and supervisor had the significance to the quality of bored pile at p-value 0.003 and 0.006 respectively and at goodness-of-fits test by Pearson's method of 0.98. Then, the obtained data was analyzed by using cause and effect diagram in order to propose the problem solving approach of the training program for operators and supervisors with improved working mannual for slurry solution preparation. Finally ,the loss of the bored pile above pile cut-off level before and after problem solving,and the satisfaction level of operators and supervisors including project owner representatives were evaluated. All of the parties were satisfied at high level.

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