TIME AND COST ANALYSIS OF INSTALLATION MACHINERY AND ELECTRICAL OUTFITTING OF LANDING CRAFT UTILITY (LCU) 300 DWT

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ABSTRACT

In machinery and electrical work installation, there are outfitting activities that cannot be started if another activity that preceded it has not been finalized. Critical Path Method (CPM) is a method that is very helpful in the process of planning all the activities to be complete the project. With CPM obtained a network diagram. With this network diagram can be founded that some activities that the manufacturing time can be shortened so we get the most efficient time of the installation work. This compression process is done by eliminating Total Float (float time) that have the biggest negative value in the network diagram by distributing it to other activities proportionately, so obtained the new duration for each activity. Result of the analysis obtained that the age of machinery and electrical installation work outfitting for the new schedule is 112 days after compressed, whereas it was 122 days in the beginning. With the same amount of labor are 122 people, obtained for the age of compressed work installation spent a cost of Rp. 162,335,255, -. Whereas with the normal installation requires a fee of Rp. 130,115,000, -. This is means for compressing the age of machinery and electrical work installation for 10 days needed additional fee of Rp. 32,220,255, -

Keywords : Machinery dan Electrical Outfitting, Critical Path Methode, network diagram, critical path, Total Float.