

## ABSTRACT

*PT. Pindad (Persero) is a company engaged in the manufacture of weapons, defense equipment, and heavy equipment. Heavy equipment division of PT. Pindad (Persero) produces an excavator with the Excava 200 brand. Excava 200 production has a problem, which is not able to meet the incoming demand. This problem is caused by production that cannot run because of a delay in supply from the machining section. Supply delays occur due to delays in parts from Excava 200 made by the machining department. The delay occurs because the machining section must produce parts from other products. These reasons indicate that the capacity in the machining section to meet all requests is insufficient. Therefore, it is necessary to improve capacity planning to cover the shortages that occur and there is no longer a production delay at Excava 200. Capacity calculations are carried out using the RCCP method. Based on calculations and analysis, an optimal alternative was found, namely to improve MPS and overtime. Alternative repairs to MPS are chosen because there are no costs incurred in the process, and produce better machine utilities. After repairs to the MPS, in March, April, May, June, July, and August there were still machines that lacked capacity and needed overtime with the costs to be incurred in March amounted to Rp 1,072,142.97. Costs that must be incurred in April amounted to Rp 107,241.97. Costs that must be incurred in the month amount to Rp. 714,761.98. Costs that must be incurred in June amounted to Rp 1,340,178.71. Costs that must be incurred in July amounted to Rp 2,108,547.84. Costs that must be incurred in August amounted to Rp. 1,965,595.41.*

*Keyword: Capacity Planning, RCCP (Rough Cut Capacity Planning)*