

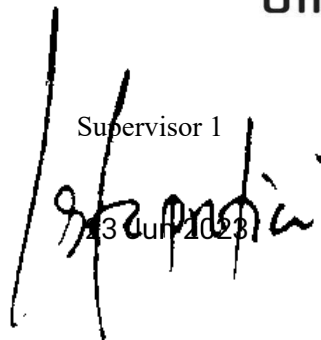
**APPROVAL PAGE**  
**ANALYSIS PRODUCTIVITY AT PT KAI USING MALMQUIST**  
**PRODUCTIVITY INDEX (MPI)**

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International ICT Business Study Program

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