



Initial Feasibility Analysis of Barrier-Gates and Rising Barriers-Based Warning Systems for Safer Level Crossings in Indonesia

Dia Cahaya Putri, Prof. Dr. Techn. Ir. Danang Parikesit, M.Sc., IPU, APEC.Eng. ; Ir. Mukhammad Rizka Fahmi Amroza

Universitas Gadjah Mada, 2026 | Diunduh dari <http://etd.repository.ugm.ac.id/>

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BARRIERS-BASED WARNING SYSTEMS FOR SAFER LEVEL
CROSSINGS IN INDONESIA
(Case Study: West Sumatra, Indonesia)**

THESIS

The thesis is submitted in partial fulfilment of the requirements for the degree of the Master of Science (M.Sc) at Master Programme in Transport System and Engineering



**DIA CAHAYA PUTRI
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**MASTER PROGRAMME IN TRANSPORTATION SYSTEMS AND
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APPROVAL SHEET

The Supervisor Team approves the thesis

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(Case Study: West Sumatra, Indonesia)**

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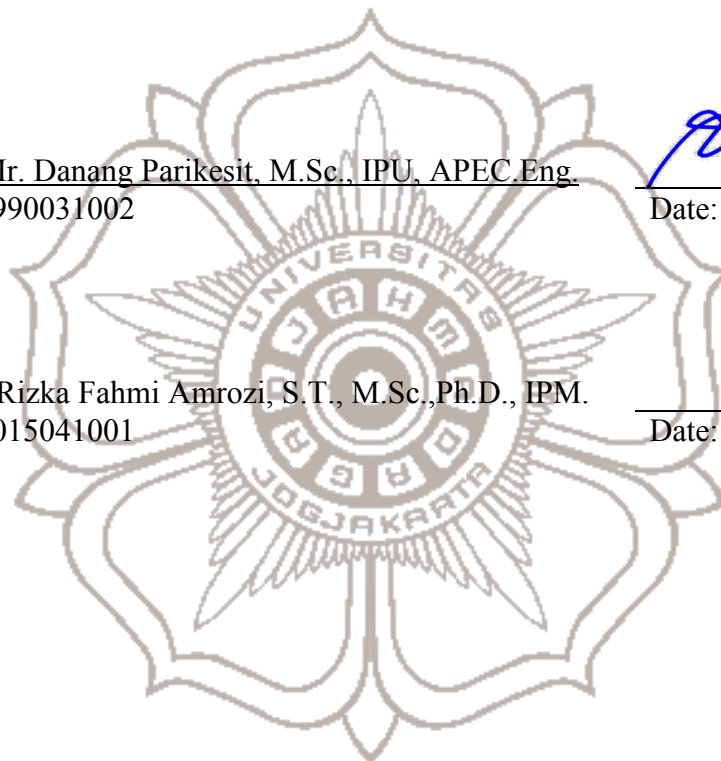

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VALIDATION SHEET

THESIS

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This thesis has been examined and defended before the Board of Examiners
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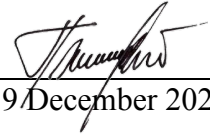


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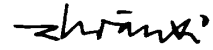


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Date: 19 December 2025

This thesis has been accepted as one of the requirements to obtain a Master of Science on
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