



**IMPLEMENTATION AGREEMENT
BETWEEN
BUILDING ENGINEERING EDUCATION UNDERGRADUATE STUDY
PROGRAM
DEPARTMENT OF CIVIL ENGINEERING AND PLANNING
FACULTY OF ENGINEERING
UNIVERSITAS NEGERI MALANG
AND
MINVIRO Ltd
ON
RESEARCH COLLABORATION AND ACADEMIC PROGRAM ON
CIRCULAR ECONOMY FOR SUSTAINABLE CONSTRUCTION**

Ref. Number: 24.8.2/UN32.5.5.2.5/KS/2026

This Implementation Agreement is entered into force on Monday, 24 August 2026 between:

1. Ir. Muhammad Aris Ichwanto, S.Pd, M.A., Ph.D: Head of Building Engineering Education Undergraduate Study Program, whom therefore legally represents and acts for and on behalf of the Building Engineering Education Undergraduate Study Program, Faculty of Engineering, Universitas Negeri Malang, whose address is at Jalan Semarang 5, Malang, hereinafter referred to as Party I.
2. Dr. Irdanto Saputro Lase: Senior Sustainability Scientists at Minviro Ltd, whom therefore legally represents and acts for and on behalf of the Minviro Ltd, whose address is at Room GG.009, Metal Box Factory, 30 Great Guildford St, London, SE1 0HS, hereinafter referred to as Party II.

PARTY I and **PARTY II** hereinafter referred to collectively as **THE PARTIES**. The Parties hereby agree to jointly arrange an Implementation Agreement on the program Research Collaboration and Academic Program on Circular Economy for Sustainable Construction Organized by **PARTY I** and collaborated with **PARTY II** as regulated in the following articles.

Initialed by Party I
Initialed by Party II

Article 1
PURPOSE AND OBJECTIVES

- (1) The purpose of this Implementation Agreement is to serve as the basis for the Implementation Agreement arranged by **THE PARTIES** in accordance with the scope of this Implementation Agreement Regulation.
- (2) The objective of this Implementation Agreement is to support the activities of **THE PARTIES** in relation to cooperation with regard to the program titled Research Collaboration and Academic Program on Circular Economy for Sustainable Construction.

Article 2
SCOPE OF ACTIVITIES

- (1) The Scope of this agreement includes the subprograms attached in the Appendix I of this agreement wherein Puput Risdanareni, S.T., M.T., Ph.D (puput.risdanareni.ft@um.ac.id) has been assigned as the Person in Charge.
- (2) The implementation of cooperation for this agreement is carried out by **PARTY I** facilitated by the **PARTY II**.
- (3) **THE PARTIES** shall actively collaborate in scope of training and exchange knowledge, advancing sustainable and circular economy initial in construction and building environment and decarbonising cementitious materials and other construction materials.
- (4) **THE PARTIES** are to carry out academic and research activity related to the program as stated in the Appendix I.

Article 3
FUNDING

The budgeted for activities under the agreement shall be determined once the parties have identified and secure the funding to proceed.

Article 4
DURATION

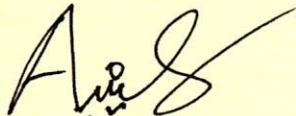
This Implementation Agreement of cooperation is valid from 24 August 2026 until 23 August 2027.

Initialed by Party I
Initialed by Party II

Article 5
CLOSING

- (1) Any amendment to this Implementation Agreement shall only be made with the mutual approval of **THE PARTIES**.
- (2) This Implementation Agreement is deemed to be terminated if one **PARTY** or **THE PARTIES** fail to fulfill the provisions in this Implementation Agreement.
- (3) Particulars that are not / yet to be determined in this Implementation Agreement shall be addressed further by **THE PARTIES** on the basis of mutual discussion and agreement which shall be set forth in an Addendum, which is an integral part of this Implementation Agreement.
- (4) This document of Implementation Agreement is made and signed by **THE PARTIES** in 2 (two) copies, all of which shall constitute the equal legal force.

PARTY I



Ir. Muhammad Aris T., S.Pd, M.A., Ph.D
Head of Building Engineering
Education Undergraduate Study
Program
Universitas Negeri Malang

PARTY II



Dr. Irdanto Saputro Lase
Senior Sustainability Scientists
Minviro Ltd

IN WITNESS WHEREOF



Prof. Dr. Andoko, S.T., M.T.
Dean
Faculty of Engineering
Universitas Negeri Malang

Initialed by Party I
Initialed by Party II

APPENDIX I
 ARTICLE 2 OF THE IMPLEMENTATION
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Program Timetables

No.	Program	Date	Activities	PIC
1	Guest Lecture	24/8/2026	<i>From Linear Construction to Circular Infrastructure: Applying Life Cycle Analysis for Sustainable Civil Engineering</i>	Both Parties
2	Preparing Stage	August-Oct 2026	FGD and data collection preparation	Both Parties
3	Implementing Stage	Nov 2026-June 2027	Research and academic activity on LCA for sustainable civil engineering	Both Parties
4	Reporting Stage	July-August 2028	Writing Report and possible join publication	Both Parties

Initialed by Party I
 Initialed by Party II

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Funding details

No.	Item	Qty	Amount	Additional information
1	Flight	2 persons	Rp. 50.000.000,-	<i>Arrival Date: 23rd August 2026 Departure Date 25th August 2026</i>
2	Hotel	2 nights	Rp. 1.000.000,-	<i>Staying dates: 23-25 August 2026</i>
3	Honorarium	8 hours	Rp. 22.350.000,-	<i>Subject to tax (x%)</i>
Total			Rp. 83,350,000,-	

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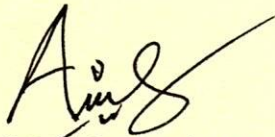
Article 4
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Article 5
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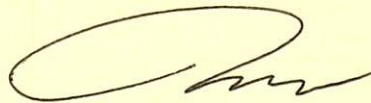
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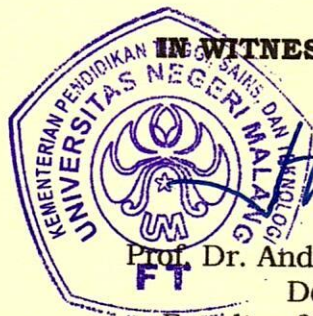
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