

## PREFACE

Ladies and gentlemen,

First of all, I would like to say thank you for all involved and related parties, especially the steering committees who have spent their times and energy, and even their money for the success of this event: International Conference on Construction Industry, Facilities and Asset Management (ICCIFAM). We are also proud of the job done by the Faculty of Engineering, Andalas University who have succeeded to invited some other countries to participate in the event.

I would also say thank you for attending and participating for this program, especially all speakers who will contribute their views, thoughts, and ideas on the topic of this conference.

This event is held as a part of our programs in celebrating 56<sup>th</sup> anniversary of Andalas University. We plan to hold this event every year. I hope the conference is getting better over time. And many related parties related to the topic get involved and participated in this event. Even though, we would like to develop more to any discipline or field of studies existing in Andalas University.

Last but not least, thank you for your participation and contribution. And happy conference. Hope the conference generates positive inputs for all of us.



*Dr. H. Werry Darta Taifur, SE, MA  
Rector of Andalas University*

## PREFACE

Ladies and gentlemen,

I am very happy for your coming to this conference room, to Faculty of Engineering, Andalas University in order to participate and contribute in this program: International Conference on Construction Industry, Facilities and Asset Management.

Again, I say: Welcome to the conference.

Beforehand, I would like to say thank you for all parties who have given supports and contribution, so that the program can be held. Especially, for the steering committees who prepare and arrange this event, I say thank you. Keep up your good job!

The theme of this conference is: Managing assets and infrastructure in the chaotic global economic competitiveness. So, we really hope your contribution in this conference in appropriate to the theme.

This event is held in order to promote, increase, and contribute to the scientific world and workplace. For scientific world, as we all know that science is developing over time, it makes the needs for fostering and discussing it. This event is one of the ways to foster and discuss it so that the development of science, especially in the field of construction industry, facilities and asset management can be done and achieved. For Faculty of Engineering, Andalas University, this program is one of our contributions to the world of science.

I hope, we all can participate in this program. And again, thank you. Let's spend our time in this conference.



*Prof. Dr.-Ing Hairul Abral  
Dean of Engineering Faculty,  
Andalas University*

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Ladies and gentlemen,

On this occasion, we would like to say thank you for inviting to and involving us in the beneficial program: International Conference on Construction Industry, Facilities and Asset Management (ICCIFAM). We are so proud to be part of and to be involved in this conference.

We are from West Sumatera Construction Services Development Board welcoming this program. That is why, we support, take part, and contribute as much as we can in order to hold that event. As an institute in the field of construction, we really need this event to development and increase our views and insights. This event is really valuable for us. There have been new developments in constructions in the world that we need so as to be able to apply in our daily job. In this conference, this moment we can have it. West Sumatera Construction Services Development Board really appreciates this event. So, we come and take part.

West Sumatera Construction Services Development Board hopes, through this event, we all can do and realize sustainable development as well as green development.

Thank you.



*Ir. Muhammad Dien Dt.  
Tumanggung  
Chairman of West Sumatera  
Construction Services Development  
Board (LPJK-P Sumbar)*

## PREFACE

Ladies and gentlemen,

This is an happy moment for all of us. We can be here together, talking and discussing about construction and facilities asset management. We say thank you for all parties who have supported and contributed in this event: International Conference on Construction Industry, Facilities and Asset Management (ICCIFAM).

The conference we hold, we had faced so many barriers and problems that one by one we can settle. Now, we are really happy, we can hold this event. We have been contacted by some experts and prospective participants from all over the countries, whether to be a speaker and participant. In addition to the local participants, the participants of the conference come from some countries in the world. They come, take part, and contribute their views and insights about construction industry, facilities and asset management.

We say thank you to sponsors, donators and all parties who have contributed and donated so that the event can be held. We realize we really need this event in order to achieve and do sustainable development. We all know that constructions and facilities asset management play an important role in achieving and realizing sustainable development. So, this event is crucial and urgent.

We hope, this conference is running as we all want. Thank you.



*Ir. Insannul Kamil, M. Eng, IPM  
Organizing Chairman*