

Interactive comment on “Laboratory experiments on rainfall-induced flowslide from pore pressure and moisture content measurements” by M. R. Hakro and I. S. H. Harahap

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We are thankful to reviewers for their valuable suggestion that increase the quality of manuscript after incorporating the necessary changes.

1. The first part of the manuscript (Introduction + Literature review + Related past works) is much too long and pointless

After the revisions the literature will be presented concise and short, however the introduction presented large as to help the research community to easily understand the basic concepts related to study.

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2. It is not clear what the specific scientific goals of this work are and what is its novelty.

The first goal of study is a) to conduct the experiments in flume to simulate the rainfall-induced slope failure b) to investigate the controlling parameters on initiation of flowslide type of failure c) to develop the methodology for early warning of rainfall-induced flowslide d) to determine the effect of type of failure on the pore and moisture content measurements e) to determine the effect of rainfall intensities, soil density, initial moisture conditions and slope thickness on pore pressure and moisture content measurements.

3. Methods chapter is not complete, e.g. it is not clear what are the effects of the flume base in creating saturated zone in the overlaying soil.

The base of the flume made impervious as to simulate bedrock of natural slope. The flume have two section slope and horizontal. The slope was made steep as most of slope failures on the steep slopes and horizontal section was provided to reduce the premature erosion and provide stability to soil slope

4. Results are poorly described and the choice of the specific set of experiments is not explained.

The specific set of experiments will be presented in the tabular form in the final revised paper, and most results are properly described that is related to pore pressure and moisture content measurements. The graphs of pore pressure and moisture content described adequately. However we will more describe the results in the final manuscripts.

5. English professional-editing is needed.

After incorporating the all changes in the manuscript, the final paper will be send to english native speaker for proofreading .