bearings. This phenomenon can be solved by the introduction of the expansion joints with a length of up to 800 mm; To validate the seismic responses, it is necessary to analyze the bridge by imposing several scaled ground motions using THA, as required by many bridge codes in the world including the Indonesian bridge code.

As the recommendations in the present study, all the pot bearings were replaced by the LRBs. It is also interesting to investigate the application of LRBs for replacement of only some of the pot bearings. By selected the appropriate positions of the LRBs, it could result in more economical bridge design. Due to the reliable performance of LRBs found in the study in reducing the seismic force up to 44.67 percent, the application of LRBs in bridges constructed in the moderate- risk seismic zone is also recommended.

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