5. CONCLUSION

Based on this research that has been done, it can be concluded that the variation in geometry of landing gear such as link dimension affects the total stiffness and subsequently vibration responses in both displacement and acceleration. The higher stiffness of the system, the higher stability can be achieved. However, high stiffness will produce a larger impact load and sacrifice the convenience of the system. Displacement and acceleration are important parameters in designing the vibration system. The good vibration system is accomplished by the smaller displacement and acceleration responses produced. Unfortunately, these two parameters are inversely proportional behavior. Therefore, it needs to consider another parameter which is the maximum value that allowed for spring displacement. Based on this consideration, the model that is selected as an optimum model is model 3, where the ratio of link comparison is unity. This model gives the responses of displacement in the allowable range and performs the lower acceleration. So that, stability and good convenience can be achieved.

