

Fig. 11. Results Wheel Distance Measurement

Turning corners of the *Bentor* front wheel resulting from the design using a tie rod after the measurement are 40 degrees to the straight forward line so that the bent can turn towards the left and right by 40°.

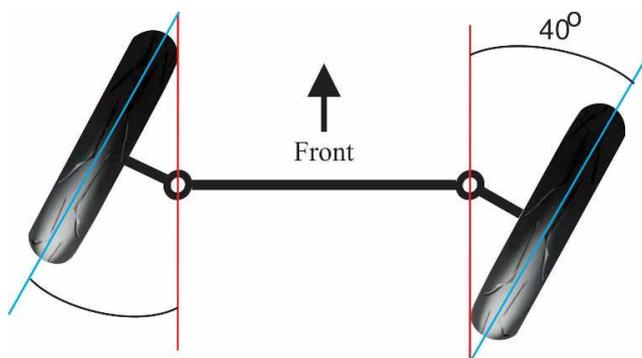


Fig. 12. Wheel Turn Radius

IV. CONCLUSION

Based on the validation by experts about the steering system that has been designed, taking into account the speed, ease of operation of the steering wheel, material strength and tire resistance. The steering system design concepts, the steering system uses 6 (six) tie rods to maximize working the steering system when walking straight and especially when turning. The steering corner lever commitment can add thrust from the steering shaft by adopting a lever system, so that when you turn it does not require a lot of power to move

the wheels. Likewise, the position of the front wheel can help to lighten the steering handlebars.

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