4. CONCLUSION

From the result of the propeller dimensional calculation and numerical simulation that has been done, it can be concluded that

- 1. The designed propeller for 25 kg MTOW plane using NACA 4412 has dimension 0.3 m radius, 0.026 m hub radius, with the range of angle of attack $13.08^{\circ} 1.594^{\circ}$ and blade angle $13.709^{\circ} 1.6918^{\circ}$ from root to tip, also has a minimum 0.005 m and maximum 0.0475 m chord length.
- 2. The analytical calculation and numerical calculation are not the same but have a close value with a difference is 4.8 %. We know that the thrust force has close value with the design calculation thrust with the result that the design process is supposed as expected.

