CHAPTER V CONCLUSION AND ADVISE

5.1 Conclusion

From the results of the design that has been done in this final project can be taken conclusion as follows:

- The bridge is designed for Gunung Nago Padang with cable 1. stayed method. Two plane system and fan system for longitudinal cables.
- 2. The total length of the bridge is 140 m consisting of 1 main span with a length of 100 m and a side span with a length of 40 m, and 1 pylon type A-Shaped, while the width of the bridge is 9 meters, consists of 2 lanes With a width of 3.5 m, 2 sidewalks with a width of 1 m. The vehicle floor thickness (deck) is 300 mm.
- 3. The type of girder used is I girder post tensioning system. The dimensions of the girder is 1600 mm height, while the cross girder is 900 mm height.
- 4. The design of this bridge pylon is A-Shaped with reinforce concrete material. This pylon includes a slim column. And there is a stiffener beam between the pylons. Dimensions of columns

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DJAJAAN • Upper Pylon: (2.5 m x 3 m)

and beams:

- Lower pylon: (3 m x 3 m)
- Stiffener beam: (1.8 m x 2 m)
- 5. The designed abutment has a height of 9 meters and a thickness of 1 meters.

- 6. The type of Abutment and Pylon foundation use precast pile with a width 356 mm. For abutment used 20 pile, for pylon used 48 pile with the thickness of the pile cap is 1 meter.
- 7. The cost estimation for this design is Rp.76.193.953.527.

5.2 Advise

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From making this final task, there are some things that must be considered :

- 1. For colleagues who wish to continue research on cable stayed bridge design, may use this as a reference or preliminary guideline.
- 2. For the calculation of budget plan cost is expected to obtain price from authorized factory in order to get the calculation of price estimation become better and accurate.

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