PREFACE

Praise and gratitude to the Almighty God, for all His bless and guidance so that the author is able to complete the thesis entitled "The Effect of Problem Based Learning Dalihan Na Tolu Model on Students' Collaboration and Critical Thinking on Excretory System Topic In SMA Negeri 1 Panombean Panei.". This thesis is written to fulfil the requirements to achieve a Bachelor of Education degree in the Bilingual Biology Education Study Program, Faculty of Mathematics and Natural Science, Medan State University.

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The author realizes that this thesis still contains numerous deficiencies, both in terms of content and grammar. Accordingly, the author awaits constructive criticism and suggestions from readers to improving this thesis. The author hopes that this thesis will be useful for readers and interested parties.

Medan, 30 July 2024

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