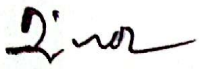


Candidate's Declaration

This is to certify that the work presented in this thesis, titled, “**Exergoeconomic Analysis and Optimization of CO₂ based Novel Combined Cooling and Power Cycles for Engine Waste Heat Recovery**”, is the outcome of the investigation and research carried out by me under the supervision of **Dr. Mohammad Monjurul Ehsan**, Professor, Department of Mechanical and Production Engineering, Islamic University of Technology.

It is also declared that neither this thesis nor any part of it has been submitted elsewhere for the award of any degree or diploma.



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Recommendation of the Thesis Supervisors

The thesis titled “Exergoeconomic Analysis and Optimization of CO₂ based Novel Combined Cooling and Power Cycles for Engine Waste Heat Recovery” submitted by **Mohammad Adnan Sami Dinar**, Student No: **200011106** has been accepted as satisfactory in partial fulfillment of the requirements for the degree of B Sc. in Mechanical Engineering on **29th September, 2025.**

1.



(Supervisor)

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