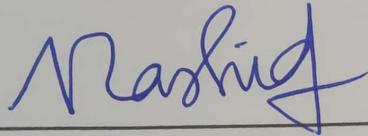


CERTIFICATE OF RESEARCH

This thesis titled "FORMULATING A CONCEPTUAL FRAMEWORK FOR ROUTE PLANNING AND WAREHOUSE DESIGN-OPERATION IN THE E-COMMERCE BASED LOGISTICS COMPANIES IN BANGLADESH." submitted by MD TAWHID AZIZ (170011059), SK. TAHMID SHAHRIAR (170011035), F.M. FARHAN FAIYAZ (170011052) and ASEER NEHALUL ISLAM (170011013) has been accepted as satisfactory in partial fulfillment of the requirement for the Degree of Bachelor of Science in Mechanical Engineering.

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DECLARATION

I hereby declare that this thesis entitled "FORMULATING A CONCEPTUAL FRAMEWORK FOR ROUTE PLANNING AND WAREHOUSE DESIGN-OPERATION IN THE E-COMMERCE BASED LOGISTICS COMPANIES IN BANGLADESH." is an authentic report of our study carried out as requirement for the award of degree B.Sc. (Mechanical Engineering) at Islamic University of Technology, Gazipur, Dhaka, under the supervision of Dr. A.R.M. Harunur Rashid, Professor, MPE, IUT in the year 2022

The matter embodied in this thesis has not been submitted in part or full to any other institute for award of any degree.

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