

DECLARATION

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This is to certify that the thesis work entitled "(Name of Thesis Title)" has been carried out by (Name of the Student) under the supervision of (Name of the Supervisor) in the Department of Biomedical Engineering, Khulna University of Engineering & Technology, Khulna, Bangladesh. The above thesis work or any part of this work has not been submitted anywhere for the award of any degree.

The above declarations are true. Understanding these, this work has been submitted for the evaluation of an undergraduate thesis.

Signature of Supervisor

Signature of Candidate

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Department of Biomedical Engineering

KUET, Khulna-9203, Bangladesh.

Date: (25 February, 2019)

APPROVAL

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This is to certify that the thesis work submitted by (Name of the Student) entitled " (Name of Thesis Title)" has been approved by the board of examiners for the partial fulfillment of the requirements for the degree of Bachelor of Science in the Department of Biomedical Engineering, Khulna University of Engineering & Technology, Khulna, Bangladesh in February 2019.

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ABSTRACT

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List of Abbreviations & Symbols

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wt %	Weight Percent
°C	Degree Celsius
MJ/kg	Mega joule per Kilogram
Kg/m ³	Kilogram per cubic meter
KgOE	Kilogram of Oil Equivalent
GCV	Gross Calorific value
SBR	Styrene Butadiene Rubber
PVC	Poly Vinyl Chloride
PET	Poly Ethelene Terapthalate
PS	Poly Styrene
EPT	Ethylene Propylene Terpolymer
IIR	Isobutylene Iso-prene Rubber
UV	Ultraviolet
NR	Natural Rubber
EPA	European Pollution Authority
MJ	Mega Joule
FCC	Fluid Catalytic Craking
TGA	Thermo Gravimetric Analysis
KW	Kilowatt
N ₂	Nitrogen Gas
O-H	Hydroxyl stretching
N-H	Amines
C-H	Carbon Hydrogen (Alkanes group)
C=C	Carbon Hydrogen double bonding
C-O	Carbonyl Stretching
O-H	Alcohol, Phenol group



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