

## **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 <sup>3</sup>	Kilogram per cubic meter
KgOE	Kilogram of Oil Equivalent
GCV	Gross Calorific value
SBR	Styrene Butadiene Rubber
BR	Butadiene Rubber
IR	Isoprene Rubber
HDPE	High Density Poly Ethylene
LDPE	Low Density Poly Ethylene
PP	Poly Propylene
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
PBR	Polybutadiene Rubber
EPA	European Pollution Authority
MJ	Mega Joule
FCC	Fluid Catalytic Craking
TGA	Thermo Gravimetric Analysis
KW	Kilowatt
N2	Nitrogen Gas
CT ratio	Catalyst -Tyre ratio
ASTM	American Society for Testing Materials
FTIR	Fourier Transform Infra –Red
CARS	Centre for Advanced Research in Sciences
TCR	Total Capital Requirement
FCI	Fixed Capital Investment.
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
C≡C	Carbon Hydrogen Triple Bonding (Alkynes)

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