**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/m3 | 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 Choloride |
| 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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