



# *ABBREVIATIONS*

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## LIST OF ABBREVIATIONS

CN	-	<i>Cocos nucifera</i> L.
BF	-	<i>Borassus flabellifer</i> L.
CNS	-	<i>Cocos nucifera</i> L. Shell
CNLS	-	<i>Cocos nucifera</i> L. Leaf Stalk
CNP	-	<i>Cocos nucifera</i> L. Peduncle
BFS	-	<i>Borassus flabellifer</i> L. Shell
BFLS	-	<i>Borassus flabellifer</i> L. Leaf Stalk
BFP	-	<i>Borassus flabellifer</i> L. Peduncle
DD	-	Destructive distillation
C	-	Concentration of the inhibitor
$\theta$	-	Surface Coverage
$E_{\text{corr}}$	-	Corrosion Potential
$I_{\text{corr}}$	-	Corrosion Current
$b_a$	-	Anodic Tafel Slope
$b_c$	-	Cathodic Tafel Slope
$R_p$	-	Polarization Resistance
$R_{\text{ct}}$	-	Charge Transfer Resistance
$C_{\text{dl}}$	-	Double Layer Capacitance
LPR	-	Linear Polarization Resistance
CR	-	Corrosion Rate of mild steel
IE	-	Inhibition Efficiency
MS	-	Mild Steel
$\text{H}_2\text{SO}_4$	-	Sulphuric acid
HCl	-	Hydrochloric acid
%v/v	-	volume/volume percentage
mV	-	Milli Volt
mpy	-	miles per year
M	-	Molarity
$\rho$	-	Density of electron
$\chi$	-	Electronegativity
$\eta$	-	Hardness
$\mu$	-	Dipole moment
S	-	Softness
$\Delta E$	-	Energy gap
DFT	-	Density functional theory
EA	-	Electron affinity
IP	-	Ionization potential
TE	-	Total energy of the molecule
$E_{\text{HOMO}}$	-	Energy of the highest occupied molecular orbital
$E_{\text{LUMO}}$	-	Energy of the lowest unoccupied molecular orbital
eV	-	electron volt
$E_a$	-	Activation energy
$\Delta G^{\circ}_{\text{ads}}$	-	Free energy of adsorption
$\Delta H^{\circ}_{\text{ads}}$	-	Enthalpy of adsorption
$\Delta S^{\circ}_{\text{ads}}$	-	Entropy of adsorption