NOMENCLATURE

$C_0$  Initial concentration of metal in aqueous solution, mg/ L

$C_t$  Concentration of metal in aqueous solution after ‘t’ min, mg/ L

$C_e$  Equilibrium adsorption concentration of metal, mg/ L

$t$  Agitation time, min

$T$  Absolute temperature, K

$w$  Biosorbent dosage, g

$b$  Langmuir equilibrium constant

$n$  Freundlich constant for metal in the aqueous solution

$d_p$  Biosorbent size, μm

$V$  Volume of aqueous solution, mL

$w$  Amount of biosorbent taken per 1L of aqueous solution, g/ L

$q_e$  Mass of solute adsorbed per mass of biosorbent at equilibrium, mg/ g

$q_t$  Mass of solute adsorbed per mass of biosorbent at ‘t’ mins, mg/ g

$q_m$  Langmuir monolayer capacity, mg/ g

$k$  Second order rate constant, g/ mg.min

$k_f$  Freundlich coefficient for metal in aqueous solution, l/ g

$k_{ad}$  First order rate constant, min$^{-1}$

$R_L$  Separation factor