

## LIST OF ABBREVIATIONS AND ACRONYMS

<sup>0</sup>C- Degree Celsius  
<sup>0</sup>F- Degree Fahrenheit  
Å - Angstrom  
AAS- Atomic Absorption Spectrophotometer  
amu- Atomic Mass Unit  
ANOVA- Analysis of Variance  
APHA- American Public Health Association  
ATSDR- Agency for Toxic Substances and Disease Registry  
BDL-Below Detectable Limits  
BET- Brunauer-Emmett-Teller  
BJH- Barrett-Joyner-Halenda  
BOD- Biological Oxygen Demand  
CDC- Centre for Disease Control and Prevention  
CHNS-Carbon-Hydrogen-Nitrogen-Sulfur  
CIF- Central Instrumentation Facility  
COD- Chemical Oxygen Demand  
CPCB- Central Pollution Control Board  
DAF- Dissolved Air Flootation  
DF- Degrees of Freedom  
DO- Dissolved Oxygen  
D-R- Dubinin-Radushkevich  
EC- Electrical Conductivity  
EDX- Energy Dispersive X-ray  
F- Fisher's F value  
FDA- Food and Drug Administration  
FE- Field Emitter  
FES- Field Emission Source  
FE-SEM- Field Emission Scanning Electron Microscopy  
FTIR- Fourier Transform Infrared  
GBP- Guwahati Biotech Park  
GUIST- Gauhati University Institute of Science and Technology

IASST- Institute of Advanced Study in Science and Technology  
IQ- Intelligence Quotient  
ISSG- Invasive Species Specialist Group  
K- Kelvin  
keV- Kiloelectron Volt  
MS- Mean Sum of Squares  
MT- Mass Titration  
OSHA- Occupational Safety and Health Administration  
PIER- Pacific Island Ecosystems at Risk  
PROSEA- Plant Resources of South East Asia  
PSAP- Powdered Seeds of *Adenantha pavonina*  
pzc- Point Zero Charge  
 $Q_m$ - Maximum Adsorption Capacity  
rpm- revolutions per minute  
SAIC- Sophisticated Analytical Instrumentation Centre  
SPM- Suspended Particulate Matter  
SS- Sum of Squares  
TCD- Thermal Conductivity Detector  
TDS- Total Dissolved Solids  
TH- Total Hardness  
TS- Total Solids  
USA- United States of America  
USEPA- United States Environmental Protection Agency  
USGS- United States Geological Survey  
WHO- World Health Organization