LIST OF ABBREVATIONS

AAS	Atomic absorption spectrophotometer
AMD	Acid Mine Drainage
BLAST	Basic local alignment search tool
BOLD	Barcode of life database
CTAB	Cetyl trimethylammonium bromide
CBOL	Consortium for the Barcode of Life
RFLPs	Restriction Fragment Length Polymorphisms
Bp	Base pair
PCR	Polymerase chain reaction
DNA	Deoxyribonucleic acid
cp DNA	Chloroplast DNA
mt DNA	Mitochondrial DNA
Zn	Zinc
Ni	Nickel
Cd	Cadmium
Cu	Copper
Pb	Lead
Cr	Chromium
Fe	Iron
Mn	Manganese
Hg	Mercury

Ppm	Parts per million
SD	Standard deviation
LM	Light Microscopy
SEM	Scanning electron microscopy
EDX	Energy dispersive X-ray spectroscopy
rbcL	Ribulose-1,5-bisphosphate carboxylase/oxygenase
MAT K	Maturase K
ITS	Internal transcribed spacer region
NJ	Neighbor joining
MP	Maximum Parsimony
ML	Maximum Likelihood
UPGMA	Unweighted pair group method with arithmetic mean
$NANO_3$	Sodium nitrate
NaOH	Sodium hydroxide
$NaHCO_3$	Sodium bi carbonate
K_2HPO_4	Potassium bicarbonate
$MgSO_4$	Magnesium sulphate
$Mgcl_2$	Magnesium chloride
$Cacl_2$	Calcium chloride
H_3BO_4	Boric acid
$MnCl_2$	Manganese chloride
$Zncl_2$	Zinc chloride
$Cocl_2$	Cobalt chloride

$Cucl_2$	Copper chloride
Na_2MoO_4	Sodium molybdate
$FeCl_3$	Ferric chloride
IAA	Indole Acetic Acid
EDTA	Ethelyne Diamine Tetra Acetic Acid
CAT	Catalase
APX	Ascorbate Peroxidase
GPX	Guaiacol-dependent Peroxidase
GR	Glutathione Reductase
SOD	Superoxide Dismutase
ROS	Reactive Oxygen Species