

List of Abbreviations

ASR	- Assimilatory Sulfate Reduction
BIS	- Bureau of Indian Standards
CAS	- Conventional Activated Sludge
CER	- Cation Exchange Resin
CETP	- Common Effluent Treatment Plant
CPNA	- Congo Red Peptone Nitrate Agar
CTAB	- Cetyl Trimethyl Ammonium Bromide
D/W	- Distilled Water
DO	- Dissolved Oxygen
DSR	- Dissimilatory Sulfate Reduction
eDNA	- extracellular DNA
EPS	- Extracellular Polymeric Substances
FBR	- Fluidized Bed Bioreactor
FID	- Flame Ionization Detector
FISH	- Fluorescence In Situ Hybridization
FTIR	- Fourier Transform Infrared
GC	- Gas Chromatography
HN-AD	- Heterotrophic Nitrifying and Aerobic Denitrifying
HRT	- Hydraulic Retention Time
KO	- Kegg Orthology
LA	- Luria Agar
LB	- Luria Broth
MBBR	- Moving Bed Biofilm Reactor
MBR	- Membrane Biofilm Reactor
MCL	- Maximum Contamination Level
MPN	- Most Probable Number
MRI	- Magnetic Resonance Imaging
NGS	- Next Generation Sequencing
NMO	- Nitronate monooxygenases
OFAT	- One factor at a time

PBS - Phosphate Buffered Saline
PCA - Principle Component Analysis
PCR - Polymerase Chain Reaction
PE - Polyethylene
PNB - Peptone Nitrate Broth
PP - Polypropylene
PUF - Polyurethane foam
qPCR - Quantitative Polymerase Chain Reaction
RBC - Rotating Biological Contactor
RR - Relative Rates
RSM - Response Surface Methodology
SEM - Scanning Electron Microscopy
SMART - Single Molecule Real Time
ThT - ThioflavinT
TN - Total Nitrogen
WHO - World Health Organization
XRD - X-Ray Diffraction.