**LIST OF ABBREVIATIONS**

<table>
<thead>
<tr>
<th>AB</th>
<th>Arsenobetaine</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC</td>
<td>Arsenocholine</td>
</tr>
<tr>
<td>ADS</td>
<td>Adsorb</td>
</tr>
<tr>
<td><em>ars</em> operon</td>
<td>Arsenic resistance operon</td>
</tr>
<tr>
<td>ArsAB</td>
<td>Permease</td>
</tr>
<tr>
<td>ArsC</td>
<td>Arsenate reductase</td>
</tr>
<tr>
<td>ArsM</td>
<td>Arsenic S-adenosylmethyltransferase</td>
</tr>
<tr>
<td>ArsR</td>
<td>Regulatory protein</td>
</tr>
<tr>
<td>As</td>
<td>Arsenic</td>
</tr>
<tr>
<td>As(III)</td>
<td>Arsenite</td>
</tr>
<tr>
<td>As(V)</td>
<td>Arsenate</td>
</tr>
<tr>
<td>CALF</td>
<td>Centre for Analysis and Livestock &amp; Food</td>
</tr>
<tr>
<td>CETPs</td>
<td>Common Effluent Treatment Plants</td>
</tr>
<tr>
<td>CSMCRI</td>
<td>Central Salt and Marine Chemical Research Institute</td>
</tr>
<tr>
<td>DMA(III)</td>
<td>Dimethylarsinous acid</td>
</tr>
<tr>
<td>DMA(V)</td>
<td>Dimethylarsinic acid</td>
</tr>
<tr>
<td>EDAX</td>
<td>Energy Dispersive X-ray Spectroscopy</td>
</tr>
<tr>
<td>EDTA</td>
<td>Ethylenediaminetetraacetic acid</td>
</tr>
<tr>
<td>EM</td>
<td>Electron Microscopy</td>
</tr>
<tr>
<td>GIDC</td>
<td>Gujarat Industrial Development Corporation</td>
</tr>
<tr>
<td>GPCB</td>
<td>Gujarat Pollution Control Board</td>
</tr>
<tr>
<td>GSFC Ltd</td>
<td>Gujarat State Fertilizer and Chemical Limited</td>
</tr>
<tr>
<td>ICP-OES</td>
<td>Inductivity Coupled Plasma Optical Emission Spectrometry</td>
</tr>
<tr>
<td>ICP-MS</td>
<td>Inductivity Coupled Plasma Mass Spectrometry</td>
</tr>
<tr>
<td>IPCL</td>
<td>Indian Petrochemicals Corporation Limited</td>
</tr>
<tr>
<td>LB</td>
<td>Luria Broth</td>
</tr>
<tr>
<td>MMA</td>
<td>Monomethylarsonic acid</td>
</tr>
<tr>
<td>MTL</td>
<td>Maximum Tolerance Level</td>
</tr>
<tr>
<td>NB</td>
<td>Nutrient Broth</td>
</tr>
<tr>
<td>NCBI</td>
<td>National Center for Biotechnology Information</td>
</tr>
<tr>
<td>O.D.</td>
<td>Optical Density</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Full Form</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------</td>
</tr>
<tr>
<td>PCR</td>
<td>Polymerase Chain Reaction</td>
</tr>
<tr>
<td>PI</td>
<td>Pollution Index</td>
</tr>
<tr>
<td>RT-PCR</td>
<td>Reverse Transcription Polymerase Chain Reaction</td>
</tr>
<tr>
<td>TEM</td>
<td>Transmission Electron Microscopy</td>
</tr>
<tr>
<td>TETRA</td>
<td>Tetramethylarsoniopropionate</td>
</tr>
<tr>
<td>TMAO</td>
<td>Trimethylarsine oxide</td>
</tr>
<tr>
<td>TMAP</td>
<td>Trimethylarsoniopropionate</td>
</tr>
<tr>
<td>USEPA</td>
<td>United States Environmental Protection Agency</td>
</tr>
<tr>
<td>VWEMCL</td>
<td>Vapi Waste and Effluent Management Company Limited</td>
</tr>
<tr>
<td>WHO</td>
<td>World Health organization</td>
</tr>
</tbody>
</table>