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Heavy Metals On Sawdust and Optimization -- 13 Arsenic Organic Interaction -- 14 Life Cycle Assessment (LCA) of a Low-Cost Conventional Building in Rishra, West Bengal -- 15 An Eco-benign Seed Treatment Strategy for Rosehips using Deep Eutectic Solvents -- 16 A Sustainable Approach for Monitoring of Ambient Air Quality Considering Lichen as a Bioindicator -- 17 Assessment of Pesticides Contamination in Surface Water and Development of Nature Based Treatment Technology -- 18 Methodology for Development of Cost Response Maps For Membrane Bioreactor -- 19 A Simplistic Method for Measurement of Bioaerosol in Indoor Air -- 20 Adsorptive Capacity of Surface Modified Red-Soil Based AAB for Removal of Anionic Dye -- 21 Treatability Study of Fish Market Wastewater in a Batch Reactor Using Suspended Growth Microbial Culture -- 22 Comparative Assessment and Phytoremediation Potentials of Ipomoea carnea and Ricinus castor Species for Wastewater Treatment -- 23 Adsorption of Fluoride from Wastewater with the Activated Carbon Derived from Coconut Shell -- 24 Removal of Suspended Solids and COD from a Textile Industry Wastewater Using Electrocoagulation and Advanced Treatment Process -- 25 Leachate Treatment Using Low-cost Adsorbents -- 26 Assessment of HRT's Impact on COD Reduction of Leachate Through Lab-scale UASB Reactor -- 27 Removal of COD in Leachates Through Coagulation and Adsorption Using Magnetic Iron Oxide-Activated Adsorbent -- 28 Effect of Anammox Bacteria for Synthetic Wastewater Treatment Containing Ammonia and Nitrite -- 29 Removal Capacity of Lemna minor as Biosorbent for Removal of Cadmium from Simulated Wastewater in Combination with Ceramic Membrane -- 30 Earthen Pot Membrane Electrodialysis (EPME) for the Removal of Reactive Red 141 (RR141) Dye from Aqueous Solution -- 31 Suspended Solids Removal in Combined Carbon Oxidation, Nitrification and Denitrification of Wastewater by Moving Bed Hybrid Bioreactor – Membrane Bioreactor System -- 32 Utilization of Spent Mushroom Substrate for Biochar Production and its Impact on Arsenic Accumulation in Rice Grain -- 33 Implications of Green Solvents on Delignification and Saccharification of Neem Oil Seed Cake for Sustainable Biorefinery Applications -- 34 A Sustainable Solid Waste Management of Aloe vera Processing Industry Through Biorefinery Approach -- 35 Elucidating Deoiled Rice Bran as an Effectual Feedstock for Fermentation Through Mild Acid-Mediated Combined Pretreatment and Saccharification -- 36 Characterization of Construction and Demolition Waste Aiming to Recycle as Coarse and Fine Aggregate in Kolkata Municipal Corporation Area -- 37 Biodegradation Study on Conventional Plastics Using Single-stage Anaerobic Digestion -- 38 Comparing Efficiency of Stabilisation of Black Cotton Soil Mixed with Fly Ash Using Plastic, Bentonite, and Bio-cement.

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### Sommario/riassunto

This proceedings volume constitutes peer-reviewed full-length papers contributed by the Authors and tailored on various thematic areas of the 1st International Conference on Sustainable Advanced Technologies for Environmental Management (SATEM – 2023). The areas of research covered by these papers include but are not limited to: •Sustainable Water Quality Management •Advanced Water Treatment Technologies •Advanced Wastewater Treatment Technologies •Assessment and Control of Air Pollution •Solid and Hazardous Waste Management •Prevention of Groundwater Contamination •Wetland Management/Phyto- and Phyco-remediation •Case Studies in Urban and Rural Pollution Control •Management of Emerging Contaminants •Innovative Techniques for measuring environmental pollutants.

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