

LIST OF TABLES

Table 1: Nitrate concentration in various industrial wastewater.....	21
Table 2: Summary of experimental work using spatially suspended catalyst (Ag-PVA and AgMPs) and modified cathode (Co ₃ O ₄ immobilized on Ti, Ti/Co ₃ O ₄).....	92
Table 3: Effect of Ag-PVA catalyst dose on nitrate reduction and selectivity for end-products.....	126
Table 4: Nitrate conversion with various cathodes and their selectivity after 90min electrolysis	126
Table 5 : Full width at half maximum (FWHM) and size calculation of fresh AgMPs.....	136
Table 6 : Full width at half maximum (FWHM) and size calculation of used AgMPs.....	136
Table 7: Effect of AgMPs dose on end-product selectivity and nitrate reduction.....	139
Table 8: The selectivity of nitrate conversion using various cathodes and their end-products.....	142
Table 9: Effect of the initial nitrate concentration on 1st-order removal rate constant and nitrate removal efficiency.....	147
Table 10 : Characteristics of Groundwater.....	154
Table 11: Characteristics of Simulated metal finishing wastewater.....	159