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“ENVIRONMENT, AGRICULTURE & HUMAN WELFARE: AN OVERVIEW OF SUSTAINABLE GOALS OF FUTURE”

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A Study of Agriculture, Human welfare and Industrial Pollution

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Abstract

Agriculture, human welfare, and industrial development are closely interconnected components of sustainable socio-economic development. While industrialization contributes significantly to economic growth, employment generation, infrastructure development, and improved living standards, uncontrolled industrial activities can adversely affect agricultural productivity, environmental quality, and human health. This study examines the relationship between agriculture, human welfare, and industrial pollution, with particular emphasis on the effects of air, water, and soil pollution generated by industrial activities. Industrial emissions, untreated wastewater, hazardous chemicals, and improper disposal of solid and industrial waste can degrade natural resources and reduce soil fertility, contaminate irrigation water, and negatively influence crop quality and productivity. These environmental changes can directly affect the livelihoods and economic well-being of farming communities. At the same time, exposure to polluted air and contaminated water may increase the risk of respiratory, gastrointestinal, dermatological, and other health problems among surrounding populations. The study highlights the need to balance industrial growth with environmental protection and agricultural sustainability. Effective pollution-control technologies, strict environmental regulations, sustainable agricultural practices, proper waste management, and continuous monitoring of industrial emissions are essential for minimizing adverse impacts. Greater public awareness and community participation can further strengthen environmental protection efforts. The study concludes that sustainable development requires an integrated approach in which industrial progress is pursued without compromising agricultural resources, public health, and quality of life. Coordinated policies and environmentally responsible industrial practices can contribute to healthier communities and long-term socio-economic development.

Keywords: Agriculture, Human Welfare, Industrial Pollution, Environmental Degradation, Air Pollution, Water Pollution, Soil Pollution, Public Health, Sustainable Development, Agricultural Productivity.