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Navigating the Manure Maze: Sustainable Livestock Management for Future

Md. Farhan Hasin¹, Umme Habiba², Prodipto Bishnu Angon³

¹Faculty of Veterinary Science, Bangladesh Agricultural University, Mymensingh-2202, Bangladesh

²Development Studies, Khulna University, Khulna-9208, Bangladesh

³Faculty of Agriculture, Bangladesh Agricultural University, Mymensingh-2202, Bangladesh

Abstract

Livestock production is increasing significantly because the demand for livestock food to meet the requirements is also growing. Livestock are essential components of the global nutrition chain, producing dairy products, eggs, and meat while contributing to gender equity, sustainable income, and meeting the SDG goals. However, contrary to sustainability, they generate a substantial quantity of waste. From livestock operations, billions of tons of trash are generated annually. Poor waste management contaminates water, air, and soil, which is hazardous for the environment and public health. The article aims to create a balanced future where manure is valued as a resource rather than a waste product. This paper investigates strategies that convert manure into nutrient-rich fertilizer and pure biogas. By converting animal waste into valuable resources, we can advance toward a sustainable future free of pollution.

Key Words: *Livestock Management, livestock, Sustainable future, Manure management*

