

CHAPTER 3

MATERIALS AND METHODS

3.1 GENERAL

This chapter describes the materials and the methodology adopted in the study on co-digestion of tannery solid wastes. In the materials section, the substrates selected, criteria for selection of the substrates and inoculum selected are detailed. The chemicals, buffers and instruments used for analysis of various characteristics are also discussed. The details of experiments conducted are presented in section 3.4.

3.2 MATERIALS

3.2.1 Substrates

The substrates selected for the co-digestion studies were (i) fleshings, (ii) primary sludge and (iii) secondary sludge. Fleshings are the solid wastes generated during the processing of raw hides/ skins into finished leather. The primary and secondary sludges used in the study are from a tannery wastewater treatment plant. Quantity of fleshings generation depends on type of raw material i.e. hides/skins processed. The quantity of fleshings generation in turn depends upon the type of animal skin i.e. sheep, goat, cow calf, buff calf or hide. In Vaniyambadi and Ambur clusters in Tamil Nadu, India sheep skins are mainly used as raw material for leather processing, whereas in Ranipet, hides are used. In Pernambut cluster in Tamil Nadu, goat

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[Nanomaterials: Synthesis, Characterization, Hazards and Safety](#) Muhammad Bilal Tahir, Muhammad Sagir, Abdullah M. Asiri, 2021-02-16 Nanomaterials Synthesis Characterization Hazards and Safety explains the fundamental properties of nanomaterials covering their types and classifications The book includes methods of preparation and characterization of nanostructured materials It explains the principles and fundamentals of nanomaterials with information on both pure and composite based materials with e nanostructures outlines the latest developments and advances in nanomaterials and highlights toxic effects and protection This book is designed to appeal to a wide readership of academic and industrial researchers focusing on nanotechnology and nanomaterials sustainable chemistry energy conversion and storage nanotechnology chemical engineering environmental protection optoelectronics sensors and surface and interface science Provides information on major concepts and advances made in the areas of nanomaterials properties and nano safety Identifies the major physiochemical properties of nanomaterials Explores the toxicity of different class of nanomaterials and how they can be used safely

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Table of Contents Chapter 3 Materials And Methods Shodhganga

1. Understanding the eBook Chapter 3 Materials And Methods Shodhganga
 - The Rise of Digital Reading Chapter 3 Materials And Methods Shodhganga
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 3 Materials And Methods Shodhganga
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 3 Materials And Methods Shodhganga
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 3 Materials And Methods Shodhganga
 - Personalized Recommendations
 - Chapter 3 Materials And Methods Shodhganga User Reviews and Ratings
 - Chapter 3 Materials And Methods Shodhganga and Bestseller Lists
5. Accessing Chapter 3 Materials And Methods Shodhganga Free and Paid eBooks
 - Chapter 3 Materials And Methods Shodhganga Public Domain eBooks
 - Chapter 3 Materials And Methods Shodhganga eBook Subscription Services
 - Chapter 3 Materials And Methods Shodhganga Budget-Friendly Options
6. Navigating Chapter 3 Materials And Methods Shodhganga eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 3 Materials And Methods Shodhganga Compatibility with Devices
 - Chapter 3 Materials And Methods Shodhganga Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 3 Materials And Methods Shodhganga
 - Highlighting and Note-Taking Chapter 3 Materials And Methods Shodhganga
 - Interactive Elements Chapter 3 Materials And Methods Shodhganga
8. Staying Engaged with Chapter 3 Materials And Methods Shodhganga

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 3 Materials And Methods Shodhganga
9. Balancing eBooks and Physical Books Chapter 3 Materials And Methods Shodhganga
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 3 Materials And Methods Shodhganga
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 3 Materials And Methods Shodhganga
- Setting Reading Goals Chapter 3 Materials And Methods Shodhganga
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 3 Materials And Methods Shodhganga
- Fact-Checking eBook Content of Chapter 3 Materials And Methods Shodhganga
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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